

Manitoba
Energy, Science and Technology

Énergie, sciences et technology
Manitoba

Annual Report
2005 - 2006

Rapport annuel
2005 - 2006

Manitoba 



2007-04567/

**MINISTER OF
ENERGY, SCIENCE AND TECHNOLOGY**

Legislative Building
Winnipeg, Manitoba CANADA
R3C 0V8

His Honour the Honourable John Harvard, P.C., O.M.
Lieutenant Governor of Manitoba
Room 235, Legislative Building
Winnipeg MB R3C 0V8

Your Honour:

I am pleased to present the Annual Report for the Department of Energy, Science and Technology for the fiscal year ending March 31, 2006.



Respectfully submitted,

Dave Chorniak



**MINISTER OF
ENERGY, SCIENCE AND TECHNOLOGY**

Legislative Building
Winnipeg, Manitoba CANADA
R3C 0V8

Son Honneur l'honorable John Harvard, P.C., O.M.
Lieutenant gouverneur du Manitoba
Palais législatif, bureau 235
Winnipeg (MB) R3C 0V8

Monsieur le Lieutenant gouverneur:

J'ai le plaisir de présenter à Votre Honneur le rapport annuel du ministère de l'Énergie, Sciences et Technologie pour l'exercice se terminant le 31 mars 2006.

Je vous prie d'agréer, Monsieur le Lieutenant gouverneur, l'expression de mon profond respect.



Le ministre,

Dave Chorniak



Energy, Science and Technology

Deputy Minister

Room 349, Legislative Building, Winnipeg, MB R3C 0V8

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Honourable David Chomiak
Minister of Energy, Science and Technology
Room 333, Legislative Building
Winnipeg MB R3C 0V8

Dear Minister Chomiak:

I have the honour of presenting the Annual Report for the Department of Energy, Science and Technology for the period April 1, 2005 to March 31, 2006.

The mission of the department is to build the capacity for Manitobans to prosper through innovation by creating strategic partnerships, encouraging investment, enabling the right infrastructure and access to it, promoting awareness and knowledge and championing critical policy development.

The department has undertaken many activities in collaboration with our partners and stakeholders. I have profiled below, a few accomplishments that are a result of the activities:

- Provided business development support to AirSource Power as they completed construction of the \$210 million / 99 mega watt St. Leon Wind Farm. In conjunction with Manitoba Hydro, issued an Expression of Interest for 1000MW of wind development over a 10 year period.
- Launched a 10-point action plan to promote biodiesel including tax reductions and a grant program.
- First place ranking in Energy Efficiency in Canada.
- Manitoba received recognition for its Climate Change Actions being rated as having the best plan in Canada by the David Suzuki Foundation and having the best plan of all regional governments by Business Week.
- The Manitoba Research & Innovation Fund (MRIF) provided to research institutions \$8.9 million in research grants, as well as a further \$2 million specifically for health research, to expand Manitoba's research capacity and to influence improvements in the health, environment and quality of life of Manitobans. An additional \$1.9 million in innovation funds was provided to support various innovative projects.

- The department contributed \$300,000 to the International Centre for Infectious Diseases (ICID) in support of the Centre's emerging role as a world leader in addressing the threat and impact of infectious diseases through research, training, commercialization and innovation.

The department is committed to the Principles and Guidelines set out in the Sustainable Development Act. Departmental initiatives support sustainable development by minimizing waste through the efficient use of office supplies and recycling, increased utilization of the internet to communicate and disseminate information to internal and external clients, delivery of a variety of seminars and implementing audio conferencing.

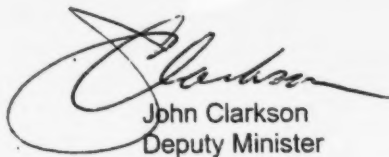
The department participates on various Sustainable Development Committees and Working Groups such as the Steering Committee, the Code of Practice, Financial Management Guidelines, Sustainability Reporting and the Regulation Sustainable Development working teams.

The department has incorporated a new section on performance reporting in the Annual Report which will provide readers with an understanding of how the department defines success, the challenges faced by the department in pursuing that success and identifies indicators that illustrate how the department measures achieving their goals.

The department will continue with implementing innovative initiatives and strategic planning that will contribute to Manitoba's success.

Respectfully Submitted,




John Clarkson
Deputy Minister



Energy, Science and Technology

Deputy Minister

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Monsieur David Chomiak
Ministre de l'Énergie, des Sciences et de la Technologie
Room 333, Legislative Building
Winnipeg MB R3C 0V8

Monsieur le Ministre:

J'ai l'honneur de vous présenter le rapport annuel du ministère de l'Énergie, des Sciences et de la Technologie pour la période du 1er avril 2005 au 31 mars 2006.

Le ministère a pour mission de donner aux Manitobains et Manitobaines la possibilité de prospérer au moyen de l'innovation en établissant des partenariats stratégiques, en encourageant les investissements, en créant l'infrastructure nécessaire et en y fournissant l'accès, en favorisant l'information et le savoir et en prônant l'élaboration de politiques essentielles.

Le ministère a entrepris plusieurs activités en collaboration avec nos partenaires et les groupes intéressés. J'ai décrit ci-dessous quelques réalisations qui résultent de ces activités :

- Le ministère a soutenu l'expansion commerciale de l'entreprise AirSource Power lorsque celle-ci achevait la construction de la centrale éolienne de 99 mégawatts à Saint-Léon, un projet de 210 millions de dollars. En collaboration avec Hydro-Manitoba, le ministère a aussi présenté une déclaration d'intérêt favorisant le développement de 1 000 MW d'énergie éolienne sur une période de dix ans.
- Le ministère a lancé un plan d'action en 10 points pour favoriser l'utilisation du biodiésel, y compris des allègements fiscaux et un programme de subventions.
- Le Manitoba s'est classé au premier rang au Canada en matière d'efficacité énergétique.
- Le Manitoba a été reconnu pour ses mesures sur le changement climatique. Son Plan d'action a été qualifié de meilleur au Canada par la David Suzuki Foundation et de meilleur parmi tous les gouvernements régionaux par le magazine Business Week.
- Le Fonds pour la recherche et l'innovation du Manitoba a versé aux établissements de recherche 8,9 millions de dollars en subventions de recherches, ainsi qu'une somme supplémentaire de 2 millions de dollars destinée plus particulièrement à la recherche sur la

santé, et ce, dans le but d'accroître la capacité de recherche du Manitoba et d'améliorer la santé, l'environnement et la qualité de vie des Manitobains et des Manitobaines. Des fonds d'innovation supplémentaires totalisant 1,9 million de dollars ont été fournis pour soutenir divers projets innovateurs.

- Le ministère a versé 300 000 \$ au Centre international des maladies infectieuses pour appuyer le rôle croissant de chef de file mondial du centre dans le domaine de la protection contre les maladies infectieuses ainsi que leurs effets, par la recherche, la formation, la commercialisation et l'innovation.

Le ministère s'engage à respecter les principes et les directives énoncés dans la Loi sur le développement durable. Les initiatives ministérielles appuient le développement durable à l'aide des mesures suivantes : la réduction des déchets grâce à l'utilisation efficace des fournitures de bureau et au recyclage, l'utilisation accrue d'Internet pour communiquer et diffuser de l'information aux clients internes et externes, l'offre de divers séminaires et la mise en œuvre de conférences téléphoniques.

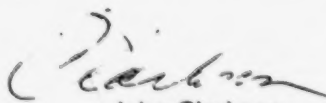
Le ministère participe à divers comités et groupes de travail œuvrant dans le domaine du développement durable comme le comité directeur et les diverses équipes de travail chargées du code de déontologie, des lignes directrices en matière de gestion financière, de la communication de rapports sur le développement durable et des règlements sur le développement durable.

Le ministère a inclus dans le rapport annuel une nouvelle section portant sur la présentation de l'information sur la performance qui permettra aux lecteurs de comprendre comment le ministère définit le succès et quels sont les défis à relever pour l'obtenir. Cette section définit également les indicateurs de performance utilisés.

Le ministère continuera de promouvoir les initiatives innovatrices et la planification stratégique qui contribueront au succès du Manitoba.

Veuillez accepter, Monsieur le Ministre, l'expression de mes sentiments les plus respectueux.

Le sous-ministre,


John Clarkson

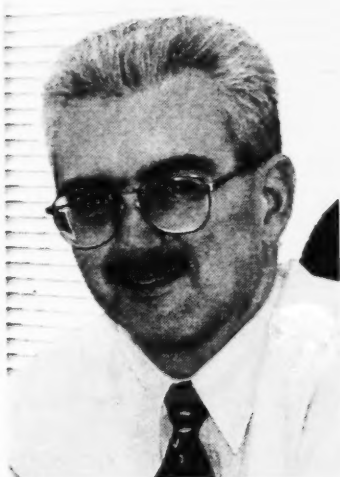
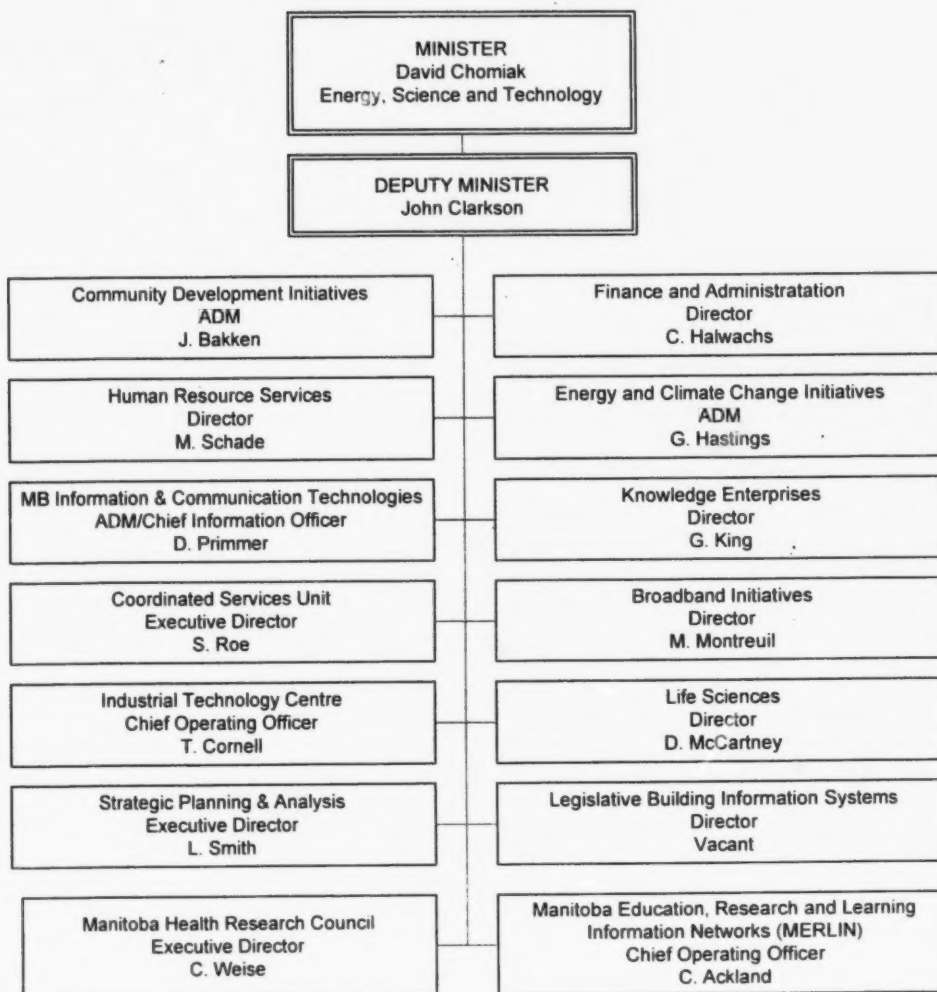


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**ENERGY, SCIENCE AND TECHNOLOGY
ORGANIZATIONAL CHART
EFFECTIVE MARCH 31, 2006**

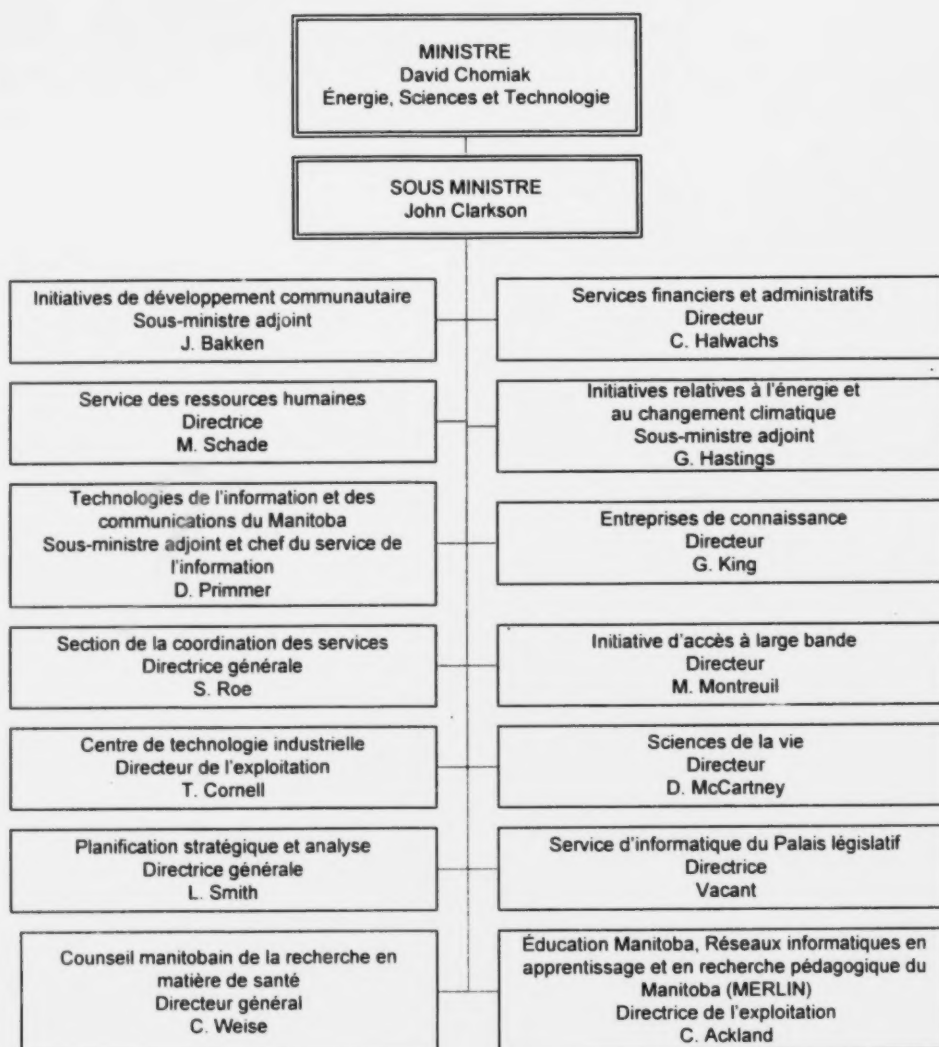


Not reflected on this Chart
Manitoba Gaming Control Commission and Manitoba Hydro

ÉNERGIE, SCIENCES ET TECHNOLOGIE MANITOBA

ORGANIGRAMME

EN VIGUEUR À PARTIR DU 31 MARS 2006



Ne sont pas représentés sur cet organigramme:
Commission de régie du jeu du Manitoba et Manitoba Hydro

PREFACE

INTRODUCTION

The Department of Energy, Science and Technology (EST) was established in September of 2002. The Financial and Administrative Services branch under Industry, Economic Development and Mines (IEDM) is a cooperative unit that also provides service to EST.

REPORT STRUCTURE

The Annual Report is organized in accordance with the department's appropriation structure as at April 2005 and in the Main Estimates of Expenditure for the Province. The Report includes financial performance and variance information at the main and sub-appropriation levels and information relating to the department's objectives and results at the sub-appropriation level. The Report also includes information about associated agencies, business assistance, revenue and expenditures, a five-year comparison of expenditures and a staffing analysis.

STATUTORY RESPONSIBILITIES

The Minister of Energy, Science and Technology is responsible for the following:

The Gaming Control Act	G 5
The Gaming Control Local Option (VLT) Act	G 7
The Economic Innovation and Technology Council Act	E 7
The Energy Act	E 112
The Manitoba Health Research Council Act	H 28
The Manitoba Hydro Act	H 190
The Sustainable Development Act	S270
(as it relates to the Manitoba Climate Change Action Fund of the Sustainable Development Innovations Fund)	

As per Schedule "G", Order-In-Council 404/2004, and
As per Schedule "R", Order-In-Council 404/2004

SUSTAINABLE DEVELOPMENT

The department is committed to the Principles and Guidelines set out in The Sustainable Development Act and works to incorporate them in department activities, programs and business practices.

The Principles and Guidelines of Sustainable Development are:

1. Integration of Environmental and Economic Decisions
2. Stewardship
3. Shared Responsibility and Understanding
4. Prevention
5. Conservation and Enhancement
6. Rehabilitation and Reclamation
7. Global Responsibility
8. Efficient uses of Resources
9. Public Participation
10. Access to Information
11. Integrated Decision Making and Planning
12. Waste Minimization and Substitution
13. Research and Innovation.

The Sustainable Development Procurement Goals:

14. Education, Training and Awareness
15. Pollution Prevention and Human Health Protection
16. Reduction of Fossil Fuel Emissions
17. Resource Conservation
18. Community Economic Development

ORGANIZATION

The department's 2005/2006 organization structure is illustrated in the Organization Chart, page i. The roles, responsibilities and staffing are outlined in the following information.

ROLE AND RESPONSIBILITIES

MINISTER

HONOURABLE DAVID CHOMIAK

DEPUTY MINISTER

JOHN CLARKSON

ROLE AND MISSION

The department will build the capacity for Manitobans to prosper through innovation, by

- creating strategic partnerships;
- encouraging investment;
- enabling the right infrastructure, and access to it;
- promoting awareness and knowledge; and
- championing critical policy development.

FOCUS

The Department was established in recognition of the following:

- **Innovation** is key to future economic development and **capacity to deliver** government initiatives;
- **Energy, science and technology** are critical to the further development of the Manitoba economy;
- Government's need to **focus** economic development priorities; and
- **Strengthen** the approach to economic development.

The Department will:

- focus provincial innovation activities;
- assist in the growth and success of our science, research and technology assets;
- strengthen, develop, grow and attract knowledge-based industries;
- focus government information technology requirements;
- build community based partnerships through connectivity;
- focus government climate change implementation plans;
- strategically develop Manitoba's energy resources, in co-operation with public and private sectors;
- support innovation in communities and schools;
- link response to climate change with innovation and economic success; and
- link government's own IT activities with innovation and economic development.

The Department will work collaboratively with business, individuals, government departments and communities to:

- strengthen their capacity to succeed;
- enhance the competencies they need to prosper;
- raise their profile locally, nationally and internationally; and
- foster an environment that supports sustainable economic growth.

Some of the immediate and short-term priorities for the Department are:

- create an environment conducive to the development of renewable energy technologies;
- lead coordinated development and action on the provincial implementation of Canada's Kyoto Protocol plan;
- optimize community participation and benefits from upcoming Manitoba Hydro development projects;
- optimize value for sale of hydro power to other jurisdictions;
- seek federal program cost sharing for Climate Change activities;
- ensure Manitoba's interests (economic and emissions targets) are represented in Federal Kyoto negotiations;
- maximize spin-off opportunities related to new renewable energy;
- facilitate early development of critical infrastructure centres in which the province has invested;
- create an environment which ensures Manitoba's life sciences cluster in the health, agri-food and environmental sectors remains globally competitive;
- facilitate development and growth of industry associations, particularly in the information communication and technology (ICT) and life sciences sectors;
- create an environment conducive to investment in Manitoba's technology businesses;
- help Manitobans maximize opportunities from connectivity by: expanding the number of communities with access to networks, increasing bandwidth, increasing the number of computers available to communities and enhancing the development of local content;
- seek improved Federal-Provincial research partnering support;
- continue to facilitate increased capacity at Manitoba research institutions;
- leverage and co-ordinate the government's investment in ICT to ensure best value from investment and maximum economic and community development opportunities;
- continue to develop strategies to safeguard information;
- provide ICT planning, development and operational activities that support the major strategic directions of government as identified through departmental plans;
- strive to collaborate and share assets and approaches between departments and jurisdictions, in order to reduce duplication, improve service levels, obtain best value from assets and ultimately reduce expenditures; and
- seek strategies to improve the ease and quality of Manitobans' access to government information, programs and services.

To achieve its mission, the department is organized in four divisions:

ADMINISTRATION AND FINANCE DIVISION provides for the executive management, planning and control of departmental policies and programs; administrative support is provided through the Department of Industry, Economic Development and Mines in the areas of human resource services, finance and administration and management information systems.

ENERGY AND CLIMATE CHANGE INITIATIVES develops and implements energy development initiatives, climate change initiatives and economic development strategies involving hydro-electric resources and alternate energy development opportunities; includes developing, monitoring and coordinating the implementation of energy and climate change policies and initiatives and related provincial programs.

SCIENCE, INNOVATION AND BUSINESS DEVELOPMENT functions as the government's primary focus for business development services to industry and communities in the areas of life sciences, knowledge enterprises, technology and infrastructure to support economic growth and stimulate employment; develops strategic plans, business plans and provides research, analysis and evaluation services; develops, analyzes and communicates policies related to innovation, research, and development, technology and telecommunications; oversees the implementation of

the Manitoba Centres of Excellence Fund and the Manitoba Research and Innovation Fund; provides a coordinating function for all research, innovation, science and technology initiatives in government; facilitates economic development in Manitoba through the provision of industrial technology services; provides funding for health research initiatives and; provides distance education technology services for the provincial education systems.

MANITOBA INFORMATION AND COMMUNICATION TECHNOLOGIES develops a comprehensive e-strategy for the province building on strengths in business, education and government community; develops key Information and Communication Technology (ICT) strategies, policies, standards and business processes to optimize the delivery of core ICT functions in support of service delivery goals; provides an information and communication technology environment within government where appropriate technologies are fully integrated with service delivery requirements; and provides analytical framework for review and approval of all ICT plans, projects and expenditures.

AVANT-PROPOS

INTRODUCTION

Le ministère de l'Énergie, des Sciences et de la Technologie a été établi en septembre 2002. La Direction des services administratifs et financiers, qui relève d'Industrie, Développement économique et Mines Manitoba, fournit également des services au ministère.

STRUCTURE DU RAPPORT

La présentation du rapport annuel reflète la structure budgétaire du ministère en avril 2005 et celle du Budget des dépenses de la Province. Le rapport contient des renseignements sur les postes principaux et secondaires du budget en ce qui concerne le rendement financier et les écarts par rapport aux prévisions, ainsi que des renseignements sur les postes secondaires en ce qui concerne les objectifs du ministère et les résultats obtenus. Il présente en outre des renseignements sur les organismes associés, le soutien aux entreprises, les recettes et les dépenses, ainsi qu'une récapitulation quinquennale des dépenses et de la dotation en effectif.

RESPONSABILITÉS LÉGISLATIVES

Le ministère de l'Énergie, des Sciences et de la Technologie veille à l'application des lois suivantes :

<i>Loi sur la Commission de régie du jeu</i>	G 5
<i>Loi sur les options locales en matière de jeu (appareils de loterie vidéo)</i>	G 7
<i>Loi sur le Conseil de l'innovation économique et de la technologie</i>	E 7
<i>Loi sur l'énergie</i>	E 112
<i>Loi sur le Conseil manitobain de la recherche en matière de santé</i>	H 28
<i>Loi sur l'Hydro-Manitoba</i>	H 190
<i>Loi sur le développement durable</i>	S270
(en fonction de sa relation avec le Fonds d'action sur le changement climatique du Manitoba du Fonds des innovations de développement durable)	

Selon l'annexe « G » du décret 404/2004
Selon l'annexe « R » du décret 404/2004

DÉVELOPPEMENT DURABLE

Le ministère veille à se conformer aux principes et aux directives énoncés dans la *Loi sur le développement durable* et s'efforce de les intégrer dans ses activités, ses programmes et ses pratiques.

Principes et directives de développement durable :

1. Intégration des décisions économiques et environnementales
2. Supervision de la gestion de l'environnement
3. Responsabilité partagée et compréhension
4. Prévention
5. Conservation et promotion
6. Récupération et remise en état
7. Responsabilité planétaire
8. Utilisation efficace des ressources
9. Participation du public
10. Accès à l'information
11. Prise de décision et planification intégrées
12. Réduction et remplacement des déchets
13. Recherche et innovation

Objectifs de développement durable en matière d'approvisionnement :

14. Éducation, formation et sensibilisation
15. Prévention de la pollution et protection de la santé humaine
16. Réduction des émissions de combustibles fossiles
17. Conservation des ressources
18. Développement économique communautaire

ORGANISATION

L'organigramme, qui se trouve à la page i, reflète la structure organisationnelle du ministère pendant l'exercice 2005/2006. L'information qui suit porte sur le rôle et les responsabilités de ce ministère ainsi que sur la dotation en personnel.

RÔLE ET RESPONSABILITÉS

MINISTRE

DAVID CHOMIAK

SOUS-MINISTRE

JOHN CLARKSON

RÔLE ET MANDAT

Le ministère donnera aux Manitobains et Manitobaines la possibilité de prospérer au moyen de l'innovation, en :

- créant des partenariats stratégiques;
- encourageant des investissements;
- créant l'infrastructure nécessaire et en y fournissant l'accès;
- encourageant l'éducation et le savoir;
- favorisant l'élaboration de politiques essentielles.

INTÉRÊT

Le ministère a été créé en reconnaissance de ce qui suit :

- *l'innovation* est la clé du développement économique futur et de *la capacité de mener à bien* les initiatives gouvernementales;
- les secteurs *de l'énergie, des sciences et de la technologie* sont essentiels à la prospérité économique du Manitoba;
- le gouvernement doit *faire converger* ses priorités en matière de développement économique;
- le gouvernement doit *renforcer* l'approche au développement économique.

Le ministère :

- polarisera les activités provinciales liées à l'innovation;
- contribuera à la croissance et au succès de nos atouts dans les secteurs de la science, de la recherche et de la technologie;
- renforcera, développera, fera croître et attirera des entreprises fondées sur le savoir;
- fera converger les besoins du gouvernement en matière de technologie de l'information;
- créera des partenariats dans la collectivité grâce à la connectivité;
- dirigera les plans de mise en œuvre du gouvernement liés au changement climatique;
- mettra en valeur, de manière stratégique, les ressources énergétiques du Manitoba en collaboration avec les secteurs public et privé;
- soutiendra l'innovation dans les collectivités et les écoles;
- fera le lien entre la réponse au changement climatique d'une part et l'innovation et le succès économique, d'autre part;
- fera le lien entre les activités de TI du gouvernement d'une part et l'innovation et le développement économique, d'autre part.

Le ministère collaborera avec les entreprises, les particuliers, les autres ministères et les collectivités aux fins suivantes :

- renforcer leur capacité de réussite;

- rehausser les compétences nécessaires à leur prospérité;
- améliorer leur image aux plans local, national et international;
- favoriser l'établissement d'un milieu propice à la croissance durable de l'économie.

Parmi les priorités immédiates et à court terme du ministère, notons :

- créer un environnement propice au développement de technologies d'énergies renouvelables;
- diriger des plans d'action et de développement coordonnés relativement à la mise en œuvre du Protocole de Kyoto du Canada à l'échelle du Manitoba;
- optimiser la participation communautaire et les bienfaits découlant des prochains projets de développement de Manitoba Hydro;
- optimiser la valeur de l'hydroélectricité en vue de sa vente à d'autres provinces et états;
- chercher l'appui du gouvernement fédéral pour partager les coûts des activités et des programmes liés au changement climatique;
- s'assurer que les intérêts du Manitoba (cibles économiques et en matière d'émissions) sont représentés lors des négociations sur le Protocole de Kyoto;
- maximiser les possibilités découlant de l'utilisation de nouvelles énergies renouvelables;
- faciliter le développement précoce de centres d'infrastructures essentielles dans lesquels la province a fait un investissement;
- faciliter le développement et la croissance d'associations de l'industrie, tout particulièrement dans les secteurs des TIC et des sciences de la vie;
- créer un environnement propice aux investissements dans les entreprises manitobaines œuvrant dans le domaine de la technologie;
- aider les Manitobains et Manitobaines à maximiser les bienfaits qui découlent de la connectivité en faisant en sorte que plus de collectivités aient accès aux réseaux; en agrandissant la largeur de bande, en augmentant le nombre d'ordinateurs disponibles aux collectivités et en favorisant le développement de contenus locaux;
- chercher un meilleur soutien en ce qui a trait aux partenariats de recherche fédéraux-provinciaux;
- continuer à faciliter une capacité accrue au sein des établissements de recherche manitobains;
- mettre en œuvre et coordonner les investissements du gouvernement dans le secteur des technologies de l'information et des communications (TIC) afin de s'assurer qu'on en tire le meilleur profit et obtient le plus d'occasions de développement économique et communautaire possible;
- continuer à élaborer des stratégies pour sauvegarder l'information;
- offrir des activités opérationnelles, de planification et de développement en matière de TIC qui appuient les objectifs stratégiques principaux du gouvernement tels qu'ils sont définis dans les plans d'action ministériels;
- s'efforcer de collaborer avec les autres ministères et administrations et de partager avec eux des ressources et des approches, afin de réduire le chevauchement d'activités, d'améliorer le niveau de service, de tirer le meilleur profit possible des ressources et, en fin de compte, de réduire les dépenses;
- chercher à formuler des stratégies pour que les Manitobains et Manitobaines aient un meilleur accès aux renseignements, aux programmes et aux services du gouvernement.

Pour mener à bien sa mission, le ministère est organisé en quatre divisions :

La DIVISION DE L'ADMINISTRATION ET DES FINANCES offre à la haute direction du ministère des services de planification et de contrôle en ce qui a trait aux politiques et aux programmes ministériels. Les services administratifs dans les domaines des ressources humaines, des finances et de l'administration et du soutien informatique sont offerts par l'entremise du ministère de l'Industrie, du Développement économique et des Mines.

INITIATIVES RELATIVES À L'ÉNERGIE ET AU CHANGEMENT CLIMATIQUE : élabore et met en œuvre des initiatives se rapportant au développement énergétique et au changement climatique ainsi que des stratégies de développement économique touchant les ressources hydroélectriques et les possibilités de mise en valeur d'énergies de rechange; cela inclut l'élaboration de politiques, d'initiatives et d'autres programmes provinciaux ayant trait à l'énergie et au changement climatique, ainsi que les activités de surveillance et de coordination nécessaires à leur mise en œuvre.

SCIENCES, INNOVATION ET DÉVELOPPEMENT DES ENTREPRISES : agit comme principal point de convergence du gouvernement pour les services de développement des entreprises destinés à l'industrie et à la collectivité dans les secteurs des sciences de la vie, des entreprises du savoir, de la technologie et des infrastructures en vue de soutenir la croissance économique et de stimuler l'emploi; élabore des plans stratégiques et des plans d'entreprise; fournit des services de recherche, d'analyse et d'évaluation; établit, analyse et communique des politiques relatives à l'innovation, à la recherche et au développement, ainsi qu'à la technologie et aux télécommunications; veille à la mise en œuvre du Fonds des centres d'excellence du Manitoba et du Fonds pour la recherche et l'innovation du Manitoba; coordonne à l'échelle du gouvernement tous les projets dans le domaine de la recherche, de l'innovation, des sciences et de la technologie; facilite le développement économique au Manitoba en offrant des services de technologie industrielle; aide au financement des projets de recherche en santé et fournit des services de technologie pour l'enseignement à distance dans la province.

TECHNOLOGIES DE L'INFORMATION ET DES COMMUNICATIONS DU MANITOBA : élabore une stratégie détaillée des services en ligne pour la province en s'appuyant sur les forces des secteurs des affaires et de l'éducation, ainsi que sur celles du gouvernement et des collectivités; élabore des stratégies, des politiques, des normes et des méthodes administratives clés pour les technologies de l'information et des communications (TIC) afin d'optimiser la prestation des principales fonctions des TIC en appui aux objectifs de prestation des services; fournit un environnement au sein du gouvernement où les technologies de l'information et des communications appropriées font partie intégrante des exigences en matière de prestation de services; offre un cadre analytique pour examiner et approuver l'ensemble des plans, des projets et des dépenses se rapportant aux TIC.

ADMINISTRATION AND FINANCE

The Administration and Finance Division comprises the Executive Support Offices and the shared Financial and Administrative Services section of IEDM.

MINISTER'S SALARY AND EXECUTIVE SUPPORT

Executive Support includes the Offices of the Minister and Deputy Minister. The Minister provides leadership and direction to ensure the goals and objectives of the department are accomplished. The Office of the Deputy Minister provides the Minister with advice and information regarding issues and matters of concern to the department. Executive Support is responsible for providing the department with policy direction and the overall planning and co-ordination of departmental activities.

18-1(a) Minister's Salary

Expenditures by Sub-Appropriation	Actual 2005/06 \$	Estimate 2005/06 FTE	\$	Variance Over (Under)	Expl. No.
Minister's Salary	29.7	1.00	29.4	0.3	
Total Expenditures	29.7	1.00	29.4	0.3	

18-1(b) Executive Support

Expenditures by Sub-Appropriation	Actual 2005/06 \$	Estimate 2005/06 FTE	\$	Variance Over (Under)	Expl. No.
Total Salaries & Employee Benefits	384.7	6.00	378.8	5.9	
Total Other Expenditures	70.3		81.2	(10.9)	
Total Expenditures	455.0	6.00	460.0	(5.0)	

ADMINISTRATION AND FINANCE

FINANCIAL AND ADMINISTRATIVE SERVICES

The Financial and Administrative Services Branch provides services to the departments of Energy, Science and Technology (EST) and Industry, Economic Development and Mines (IEDM) and related agencies. The Branch provides financial management, administrative, information technology and human resource services to both departments.

OBJECTIVES

The objectives of Finance and Administrative Services are to: provide leadership, program direction and operational coordination to support department activities; to provide high quality, timely and customer responsive administrative, financial management, information technology and human resource service; develop and administer appropriate administrative and financial standards, policies and procedures; and to develop and maintain appropriate reporting systems to provide timely and accurate decision-making information to senior management in the departments and in central agencies through a centralized support service.

ACTIVITIES/RESULTS

In support of the branch objectives and the mission of the Department, the branch processed payments and receipts; recruited, deployed, trained and paid staff; administered and coordinated the Department's parking and pool vehicle programs; provided for physical accommodations including furniture and equipment and mail distribution; provided advisory and specialized accounting and financial management services to departmental personnel and related entities; managed the Department's records management program and provided timely, accurate and relevant information to departmental and central agency decision-makers including budgetary and cash flow information to Treasury Board.

In 2005/06 the branch processed the following for EST and IEDM; 44,957 payment/revenue transactions and 544 authority-seeking documents (327 for EST and 217 for IEDM) and 85 Freedom of Information requests (23 for EST and 62 for IEDM).

In addition, the section prepared the Detailed Estimates, Estimates Supplement, Annual Report and all other year-end financial reports for both, EST and IEDM.

Human Resource staff that support Energy Science and Technology and its SOA's are part of the consolidated HR unit that also services the Departments of Culture Heritage and Tourism, Finance and its SOA's, Industry, Economic Development & Mines, and the Office of the Auditor General.

Human Resource activities are carried out in accordance with The Civil Service Act, the Government Employees Master Agreement, Manitoba Labour Laws, and Workplace Health and Safety Legislation.

Specific activities of Human Resource Services during 2005-2006 included:

Employment Equity Statistics as at Fiscal Year End

	2002-2003 Actual (%)	2003-2004 Actual (%)	2004-2005 Actual (%)	2005-2006 Actual (%)
Aboriginal	1.3	1.5	0.8	0.7
Women	47.4	47.0	49.2	48.9
Persons with Disability	2.6	1.5	1.6	1.4
Visible Minority	2.6	3.0	6.6	7.2

- The branch continues to co-ordinate the implementation of government-wide policies and initiatives.
- One regular and two term positions were filled through formal competition process for EST. Ten positions were filled through various direct appointments. Six term appointments were made.
- Prepared detailed classification analysis under delegated and non-delegated authority for 4 reclassification requests.
- Consulted with management/supervisory personnel, employees and the M.G.E.U. in the resolution of various labour relations issues. Two formal grievances were filed.
- Maintained payroll records for 180 EST employees.
- Provided benefit information on 18 employee appointments and 2 retirements to EST employees.
- Processed 4 WCB accident/injury claims that resulted in time loss of 15.60 days.
- Energy Science and Technology participated in the various Internship programs offered through the Civil Service Commission.
- Organizational consulting services included Renewal, ICT Restructuring and Workforce Diversity strategies. Provided 3.5 days of facilitated learning for EST employees.

Computer Services provided the department with information technology support services including: computer systems design and implementation; equipment evaluation and acquisition (outside the Desktop Refresh); user education and assistance (outside the standard suite); and implementation of government wide initiatives adherence to guidelines and standards.

Additional Computer Services activities undertaken and accomplishments for EST during the year included:

- Nominated for the Quality Service Excellence Award in government for the MB Phone Book adopted corporately.
- Continuation with the initiative to link corporate applications including the MB Phone Book, SAP and Exchange and met with the Privacy Access Review Commissioner and Vendors to discuss issues related to sharing and updating of corporate data.
- Implemented a major new release of the MB House Book with enhanced reporting capability and management reports.
- Created web services from the MB Phone Book for code re-use within the department and government applications for a Service Oriented Architecture and Business Forms Gateway planned for FY 2006/07.
- Contributed to the ICT restructuring efforts within government through participation in executive management, focus groups and working teams for:
 - Service Delivery
 - Server Consolidation and Application Consolidation
 - Unified Solution Delivery
- Retired legacy applications and implemented a new Telecomm Service Request application for corporate use.
- Updated external facing web server to the latest version that provides web delivery of public facing applications for three government departments and transferred ownership to the corporate IT entity.

18-1(c) Financial and Administrative Services

Expenditures by Sub-Appropriation	Actual 2005/06	Estimate 2005/06		Variance Over (Under)	Expl. No.
	\$	FTE	\$		
Total Other Expenditures	150.0		150.0	-	
Total Expenditures	150.0		150.0	-	

ENERGY AND CLIMATE CHANGE INITIATIVES

Energy and Climate Change Initiatives (ECCI) is a key strategic element of the department. Three branches make up ECCI, Energy Policy, Energy Economic Development and Climate Change.

ECCI focuses its efforts on promoting and developing clean renewable energy in the province.

OBJECTIVES

The primary objectives include:

- developing and implementing government-wide economic development strategies encompassing Manitoba hydroelectric resources and other emerging renewable energy development opportunities;
- developing, analyzing and implementing provincial government's energy policies;
- act as a champion within the government and across the province to raise awareness and promote action on advancing our understanding of climate change impacts and adaptation as well as reducing greenhouse gas (ghg) emissions;
- advocate on behalf of Manitoba in the development of Canada's climate action plan and work with citizens, organization, communities and businesses to develop programs that help them seize opportunities to take action on climate change and enhance their quality of life and benefit Manitoba's economy.

ACTIVITIES/RESULTS

ENERGY DEVELOPMENT INITIATIVES

Energy Policy

Energy Policy is responsible for developing broad energy policies that support energy economic development. A brief summary of activities includes:

Demand Side Management: Supporting the Energy Code Advisory Committee appointed by the Minister, supporting Manitoba Hydro in improving its Power Smart program – rated the top program in Canada, and researching a Green Buildings Policy for the consideration of Treasury Board.

Geothermal (Ground Source Heat Pumps): Worked with Manitoba Hydro, federal and provincial agencies in promoting the use of this "green" heating and cooling energy source in one of Winnipeg's largest planned subdivision known as Waverley West.

Hydro Projects: Partnered with Manitoba Hydro in exploring the possibility of supplying power to Ontario and other export markets. A large power sale would be an important step towards the construction of large hydro-electric projects in Northern Manitoba.

Wind Power: Continuing to develop policies with Manitoba Hydro for large scale and community wind projects. The 2006 Canadian Wind Energy Association's Annual General Meeting will be held in Winnipeg in October 2006.

Ethanol: Continuing to work on policies and regulations for implementing the ethanol mandate.

Bio-Diesel: Launched a 10 point action plan and policy framework to support biodiesel in November of 2005. Production facilities are expected to be developed in the next few years.

East-West Grid: Continued efforts to raise the national profile and support for an east-west power grid. Such an initiative would potentially result in enabling the transfer of clean energy from Manitoba to other Canadian provinces.

Energy Economic Development

Energy Economic Development is responsible for promoting existing energy resources and helping to develop emerging renewable energy sources for sustainable and environmentally responsible economic growth in Manitoba. The following provides a summary of activities:

Hydro-Electric Power Sale: Co-managed studies with Ontario Energy, Hydro One and Manitoba Hydro to evaluate the feasibility of a large, long-term Manitoba hydro-electric power sale to Ontario and all the associated infrastructure developments. This work is being done under the auspices of the Manitoba/Ontario Clean Energy Transfer (CETI). Memorandum of Understanding (MOU) was signed on June 20, 2003. The first phase of this project incorporates an upgrade to existing MB/ON interconnections. This CETI Phase I study is near completion.

Hydro Projects: Partnered with Manitoba Hydro in exploring the possibility of supplying power to Ontario and other export markets. A large power sale would be an important step towards the construction of large hydro-electric projects in Northern Manitoba.

Ethanol: Worked with Husky Energy in finalizing their investment plans for a new \$145 million ethanol plant that when completed will produce 130 million litres of ethanol. Continued to work with other proponents interested in building a second Manitoba plant to service potential export markets.

Biodiesel: Secured a commitment from the Federal Government to provide funding support for biodiesel production in Manitoba. A biodiesel production program was subsequently developed for interested proponents in Manitoba, with several groups expressing interest.

Wind Energy: Provided business development support to AirSource Power as they completed construction of the \$210 million / 99 mega watt St. Leon Wind Farm. The wind farm is expected to reach full commercial operation by late spring 2006. In conjunction with Manitoba Hydro, issued an Expression of Interest for 1000 MW of wind development over a 10 year period. The Expression of interest closed in February 2006, with 36 responses from 43 proponents being received.

Hydrogen: The Branch continued to coordinate and chair the activities of the Manitoba Hydrogen Steering Committee. Progress continues on several of the key projects identified as priority actions within the Preliminary Hydrogen Opportunities Report, including the Hydrogenics hybrid fuel cell bus project, and the development of a hydrogen centre of expertise.

Other Business Development: Provided business development support to several companies on several initiatives including bio-diesel, ground source heat pumps, and Waverley West. Worked on an interdepartmental team that successfully encouraged Biovail to make a major expansion of their Steinbach pharmaceutical plant.

CLIMATE CHANGE

In 2005, Manitoba received recognition for its Climate Change Actions being rated as having the best plan in Canada by the David Suzuki Foundation and having the best plan of all regional governments by Business Week.

Conducted the Manitoba Community Climate Change Solutions Conference as a continued government commitment toward a long-term partnership that would result in action and opportunities related to climate change for communities and to inform communities about relevant climate change tools, funding and other resources. The event also provided the public with access to panel discussions and expert advice on how Manitoba communities can respond to climate change and actively participate to find solutions in their own homes.

Participated at the 11th Meeting of the Conference of the Parties (CoP 11) to the United Nations Framework Convention on Climate Change and related parallel events in Montreal. Assisted Manitoba environmental business and academics show-case their expertise and services to an international audience. Coordinated the Climate Leaders' Summit, a parallel event of Regional and State leaders as well as corporate leaders that was co-hosted by Manitoba's Premier and the Premier of Quebec.

Surveyed Manitoban's attitudes, awareness and behaviours toward climate change issues and actions to better inform decision making and policy development with respect to community and individual climate change action in Manitoba.

Coordinated proposals to the federal government's Partnership Fund further to the March 19, 2004 MOU on climate change in seven major climate change and energy and/or energy/efficiency areas:

1. Clean Energy Transfer Initiative (Ceti)
2. First Nations Renewable Energy & Energy Efficiency Pilot Project
3. Comprehensive Geothermal Energy Development Using Ground Source Heat Pump Technology as a Viable Alternative to Natural Gas for New Residential Development
4. Promoting A Manitoba Climate Change Centre – Efficiency Manitoba
5. Low Income Energy Efficiency Initiative
6. Hydrogen Centre Of Expertise
7. Manitoba Energy Code For Buildings

Participated in the Prairie Adaptation Research Collaborative Working Group and Board of Directors: Worked on developing a business plan to establish research priorities and directions for PARC in partnership with Saskatchewan, Alberta and the Government of Canada.

Promoted Climate Change Education and Outreach: Enhanced public education and awareness of climate change through participation in the Climate Change Connection, Climate Change workshops, Seminars and Conferences. Participated in the Climate Change Community Challenge and encouraged departmental and government participation in the annual Commuter Challenge as part of the Government's commitment to lead by example.

Worked with the Association of Manitoba Municipalities (AMM) and Manitoba Municipal Administrators Association (MMAA) to further engage other communities in climate change actions. Delivered presentations to communities throughout the Province and also to administrators at the AMMA Impacts and Opportunities Conference, along with other presenters such as Dr. David Suzuki and the Chair of the National Round Table on the Environment and the Economy (NRTEE), on November 9 and 10, 2005.

Implemented Manitoba's Climate Change Community Challenge (C4) program. Finalized partnership agreement with the federal government's One-Tonne Challenge Program and C4 initiative. In developing the C4 Program, collaborated with community based organizations to pursue cooperation and encourage local involvement to reduce greenhouse gas emissions. Worked with AMM to begin consultations with other communities for future participation expansion in the C4 program.

Worked collaboratively with citizen and stakeholders to enhance knowledge and plan actions related to climate change: Increased citizen and stakeholder participation in consultation efforts throughout Manitoba. Provided citizens and stakeholders with information on Manitoba Government climate change actions through participation in climate change events and responded to requests for information. Liaised with climate change researchers and stakeholders to gain better understanding of climate change activities and their implications for citizens.

Assisted in designing a step-by-step resource guide for communities to assist them to get started and/or follow through with community-based greenhouse gas (ghg) reduction projects and awareness. Provided input and assistance as well for a climate change guide for Manitoba's small businesses.

The Manitoba Climate Change Action Fund (MCCAF) provided support to made-in-Manitoba projects to contribute to local engagement in climate change activities:

1. The Climate Change Connection, public education and outreach organization received \$42,000 to continue to raise awareness of climate change issues and promote actions to live a more climate-friendly and sustainable lifestyle. The Climate Change Connection provided education services through workshops, web and print resources and partnering with other groups.
2. Resource Conservation Manitoba received \$100,000 to undertake greenhouse gas emissions reductions initiatives in the urban transportation sector. Urban trip reduction programs such as Active

and Safe Routes to School, Off Ramp Manitoba, the Workplace Trip Reduction Project and Commuter Challenge 2005 were key programs.

3. In partnership with the Prairie Adaptation Research Collaborative (PARC), \$25,000 was allocated to continue coordination of climate change impacts and adaptation research in Manitoba by a Manitoba-PARC coordinator.
4. The Climate Change Community Challenge (C4) received \$150,000 and matching funds from the federal government One-Tonne Challenge to continue to assist four geographically and socio-economically diverse Manitoba communities identify, plan and implement energy and resource conservation initiatives that will reduce greenhouse gas emissions in the only such pilot project in the nation.
5. The Manitoba Model Forest received a grant of \$8,000 for an extension of a climate change vulnerability research project focused on forest-based communities to conduct a workshop with leaders and decision makers to begin the process of identifying adaptation options and strategies for those types of communities.
6. Poplar River First Nation was granted \$24,455 to initiate a component of a project whose goal is the establishment of boreal forest/peatlands research sites for the purposes of applying traditional knowledge in assessing approaches to climate change study, obtaining data on carbon sequestration and baseline data for climate change impacts monitoring, studying fire and other natural disturbances in the boreal zone and applying innovative field technologies
7. \$18,000 was granted to the Hydrogen Centre of Expertise (HCE) to organize a one-day seminar regarding hydrogen infrastructure intended to involve representatives from Iceland, further to the September 2003 MOU on Hydrogen Development with that country. It will provide a means to showcase education and training related to the HCE as well as an advanced hydrogen hybrid fuel cell transit bus. The intent of the project also will be towards follow-up implementation of specialized college and university level courses or curriculum components on hydrogen utilization and technology.

18-2(a) (b) & (c) Energy and Climate Change Initiatives

Expenditures by Sub-Appropriation	Actual 2005/06	Estimate 2005/06		Variance Over (Under)	Expl. No.
	\$	FTE	\$		
a) Salaries & Employee Benefits	1,148.5	16.00	1,174.4	(25.9)	
b) Other Expenditures	1,030.0		1,244.3	(214.3)	
c) Grant Assistance	14.0		14.3	(0.3)	
Total Expenditures	2,192.5	16.00	2,433.0	(240.5)	

SCIENCE, INNOVATION AND BUSINESS DEVELOPMENT

SCIENCE, INNOVATION AND BUSINESS DEVELOPMENT

OBJECTIVES

The main focus of Science, Innovation and Business Development (SIBD) is to provide Manitoba with a comprehensive, integrated and coordinated approach to innovation, research and technology initiatives including:

- research, innovation and technology policy development and coordination;
- knowledge based industry development and growth;
- building Manitoba's life sciences presence
- smart community development; and
- extending broadband access to all of Manitoba.

SIBD's mission is to *promote and enhance a climate of research, innovation and technology development that spurs responsible economic development for the benefit of all Manitobans*. Its objectives are to:

- develop public policy initiatives in support of research, innovation and technology development;
- develop a provincial innovation infrastructure;
- build and strengthen the research and innovation capacity within the province;
- build community capacity for sustained economic development in the new economy;
- build the capacity for new company formation, attraction and growth; and
- coordinate the implementation of public policy initiatives in the areas of research, information technologies, and investments.

PROGRAM AREAS

Strategic Planning and Analysis

Strategic Planning and Analysis provides a central role for the Department in areas of strategic and operational planning and organizational development. Strategic Planning and Analysis also provides policy and research support to the Department and is the lead across government on the development and implementation of policy, strategies and initiatives on innovation, science and research issues.

Knowledge Enterprises

Knowledge Enterprises works in partnership with key stakeholders to develop an innovation environment in which the Information Communications and Technology (ICT), digital media, customer contact centre and nanotechnology sectors can thrive.

Life Sciences

Life Sciences works with multiple public and private stakeholders to strengthen Manitoba's globally competitive life sciences cluster in the health, agri-food and environment sectors, leading to positive social and economic outcomes for all Manitobans.

Broadband Initiative

Broadband Initiative works with the private sector and community based organizations in order to provide high-speed connectivity and Broadband capacity to those areas in the province where such services do not currently exist.

ACTIVITIES/RESULTS

Strategic Planning & Analysis

Manitoba Research and Innovation Fund (MRIF)

With an allocation of \$12.95 million, the Manitoba Research and Innovation Fund (MRIF) is the main vehicle for provincial research and innovation funding. Established in 2003/04 the MRIF has three main components: the Research Fund element; the Health Research Initiative; and the Innovation Fund element. The objectives of the MRIF are:

- to increase the capacity of Manitoba's universities, colleges, hospitals and other not-for profit institutions to carry out important world-class scientific research and technology development through the funding of research projects identified as a priority by the Province;
- to increase Manitoba's capacity for innovation through the support of science and technology awareness, technology commercialization and other strategic initiatives;
- to enhance job creation, economic growth, productivity and competitiveness;
- to encourage collaboration between and within the private sector and research institutions;
- to enhance Manitoba research institutions' abilities to attract and keep world-class researchers and skilled technicians, and to conduct state-of-the-art research; and
- lead improvements in Manitobans' health, environment, and quality of life.

Research Fund

The Research Fund provided \$8.9 million of support in 2005/06 to expand Manitoba's research capacity. To date, the Province has approved over \$64 million for Research Fund projects. Some of the projects approved for funding include the CIHR Strategic Training Program, Manitoba Centre for Health Policy Endowed Child Health Chair, Richardson Centre for Functional Foods and Nutraceuticals and the Manitoba Centre for Proteomics, as well as matching support for various Manitoba projects successful under the federal Canadian Foundation for Innovation (CFI), Genome Canada and Canadian Institutes for Health Research (Regional Partnership Program) initiatives.

Health Research Initiative

HRI funding, totaling \$2.0 million was provided to the five research centres in 2005/06. The program funds were apportioned to each centre according to a formula that has been used consistently since the program's inception as a pilot project in 1996/97. Payments to each HRI participant were as follows:

Institution	Funding Allotment
CancerCare Manitoba	\$ 169,200
Manitoba Institute for Child Health	\$ 136,400
Health Sciences Centre	\$ 380,000
St. Boniface General Hospital Research Centre	\$ 394,800
University of Manitoba	\$ 919,600
TOTAL:	\$2,000,000

Innovation Fund

This program element is used to assist the implementation of identified strategic Manitoba Government innovation priorities. Funding in this stream is catalytic, supports the broader industry in developing their innovation structures, and promotes economic development by leveraging and expanding research capacity and assisting with technology commercialization.

In 2005/06, a total of \$1,882,000 of Innovation fund support was provided to various projects, the major ones including: TRILabs; MindSet; Incubat; Westlink; Advanced Manufacturing Initiative; Rat River community broadband initiatives; University of Manitoba Nanotechnology Laboratory; International Centre for Infectious Diseases; Canadian Virtual Hospice; Green Manitoba Initiatives; and the Manitoba Visual Network.

Institution	Funding Allotment
TR Labs	\$ 500,000
MindSet	\$ 250,000
McLeod Harvest	\$ 50,000
Incubat	\$ 100,000
Westlink	\$ 35,000
Advanced Manufacturing Initiative	\$ 80,469
Strad Research	\$ 50,000
Rat River Communications	\$ 70,008
Nano Tech Lab	\$ 23,000
Conference Board of Canada Roundtable on Technology	\$ 5,000
CME Manufacturing Week	\$ 8,333
International Centre for Infectious Diseases	\$ 300,000
Canadian Virtual Hospice	\$ 56,000
Community Innovations Support Program	\$ 20,000
E-Waste	\$ 10,000
Island Lake EEI	\$ 10,000
BIO International Conference	\$ 50,000
Fortune Cat	\$ 50,000
NASCO Conference 2006	\$ 50,000
Visual Network Proposal	\$ 61,000
Rat River II (HYTEK)	\$ 50,000
Manitoba Health Research Council Strategy	\$ 25,000
Cisco NTA	\$ 28,140
TOTAL:	\$1,881,950

Note: \$480,000 of the funding allocation was provided to the Innovation Fund by the Urban Development Initiative (UDI).

Manitoba Centres Of Excellence Fund (MCEF)

The national headquarters for the Intelligent Sensing for Innovative Structures (ISIS) network that conducts research and development on advanced composite materials and electronic sensors for construction engineering projects such as bridges and earthquake resistant buildings is located at the University of Manitoba, and has received major MCEF support over the past decade.

During 2005/06 MCEF support totaling \$600,000 was provided to the following Manitoba projects and leveraged federal Networks of Centres of Excellence (NCE) research funding at the 5:1 ratio:

- Canadian Genetic Diseases Network
- Micronet
- ISIS Canada
- Sustainable Forest Management
- Photonics (CIPI)
- Canadian Arthritis Network
- Vaccines and Immunotherapeutics of Cancer & Chronic Viral Diseases (CANVAC)
- Canadian Stroke Network (CSN)
- Canadian Water Network
- AUTO 21
- PENCE
- ArticNet
- Foods & Biomaterials Net
- Institute for Robotic Innovation Systems (IRIS) and
- MITACS

Manitoba Health Research Council (MHRC)

In 2005/06 the Department provided \$1.95 million in funding to the Manitoba Health Research Council to support the administration of the Council and its personnel awards and research grants. MHRC was established to "promote and assist basic, clinical and applied research in the health sciences in Manitoba and to advise the Minister on health research matters referred to Council". Over its 20-year history, the Council has performed its role primarily through financial support (grants and awards) to newly appointed investigators, postdoctoral fellows and graduate students.

Manitoba Network For Science And Technology (Mindset)

The Manitoba Network for Science and Technology (MindSet) is an EST sponsored initiative led by a full-time Program Facilitator that supports the development, co-ordination and implementation of year-round science and technology awareness activities in Manitoba. MindSet encourages and promotes:

- scientific and technological awareness, knowledge, ability and skills;
- improved school-to-work transition in science and technology areas; and
- innovation in science and technology.

In particular, MindSet's role is primarily one of facilitating, networking, communicating and implementing activities, especially in areas important to the provincial economy. These areas include information technology, biotechnology, aerospace, advanced manufacturing, composites and new materials and new media. MindSet's key activities in 2005/06 included:

- Sanofi-Aventis Biotechnology Challenge
- Digitized Student Technology Conferences
- Manitoba Science and Technology Achievement Luncheon
- Microsoft Partnership Programs
 - Partners in Learning Program
 - 21st Century Leadership Program
 - Innovative Teachers Awards
- MindSet Summer Institutes
- National Biotechnology Week
- New Media Workshops
- Science Fairs

Incubat

Incubat is a technology business incubator formed by a joint venture between the University of Manitoba (including Smart Park) and two Incubat managers; Genesys Venture Inc. (GVI) and e-Stage Capital Inc (e-Stage). Incubat's objective is to provide critically needed management, business, and financing experience to early stage companies in the Life Science and Information Communication Technology (ICT) sectors. GVI provides business incubation services to Life Science companies while e-Stage incubates ICT companies. Innovative enterprises from the community are also eligible to locate in the facility.

The Province concluded its 3 year commitment to Incubat in 2005/06 with \$100,000 in operational funding. Throughout the life of this agreement, Incubat has provided incubation services to 7 technology start-ups from the university and community.

Knowledge Enterprises

The Knowledge Enterprises Branch activities for 2005/06 were focused mainly in the following four areas:

1. Creating An Environment Fostering ICT Business Development
2. Increasing ICT Research and Technology Commercialization
3. Marketing Manitoba's ICT Sector and Attracting ICT Investment
4. Fostering a Knowledgeable and Growing ICT Workforce

1. Creating An Environment Fostering ICT Business Development

Industry and Professional Associations

The branch worked closely with relevant industry and professional associations to promote competitiveness within Manitoba's knowledge based businesses; nurture the growth of an advanced

technological infrastructure; and ensure the recruitment and retention of a skilled labour force. Such organizations include the Information and Communications Technologies Association (ICTAM), the Canadian Information Processing Society, the Manitoba Interactive Digital Media Association and the Manitoba Customer Contact Association.

ICTAM has adopted an advisory role to the Minister on matters related to corporate ICT strategy as well as ICT economic and community development initiatives. The Province is in its 3rd year of a 5-year \$130,000 commitment to operational funding to support ICTAM.

ICT in the Aboriginal Community

The branch participated on the Steering Committee and Working Groups related to the Manitoba-IBM Aboriginal Partnership Agreement focused on increasing opportunities for Aboriginal-owned businesses and ensuring greater participation of Aboriginal peoples in the Manitoba economy. In June of 2005, five initiatives were announced as a result of this joint project including; a K-12 Education Solutions Grant for Pembina Trails School Division, a Literacy Project using technology in three First Nation communities, an IT Career Booklet for Aboriginal people, an ICT Literacy and Planning Project and an initiative to explore opportunities for implementing remote learning for Aboriginal people in remote communities and urban centres.

Manitoba Interactive Digital Media Fund (MIDMF)

Similar to the funding provided to the film and sound recording industries through Manitoba Film & Sound, this fund is a critical element in supporting the creation of Manitoba owned and controlled projects. Through its three year growth cycle, the department is now seeing the first projects proceed to market delivery.

Manitoba Interactive Digital Media Association (MIDMA)

An active, representative industry association is needed to facilitate the digital media industry's growth and support its development initiatives. MIDMA has been operating on a volunteer basis since 2003, and EST, through the Manitoba Interactive Digital Media Fund, committed to seed funding for 2 years starting in 2005 to assist in stabilizing the organization.

Interactive Digital Media Sector Skills Profile

A July 2005 study was commissioned by MIDMA to serve as a reference for building a video game industry development strategy and provided data on the skill sets and expertise of the digital media workforce and highlighted skill gaps that exist. EST is working with industry and government stakeholders to address the skill gaps identified in the study.

2. Increasing ICT Research and Technology Commercialization

TRLabs

This was the final year of the government's 5-year, \$2.4 million agreement with TRLabs. This year, the branch has continued to work actively with TRLabs to explore ways to grow the number of applied research and commercialization projects undertaken with local Manitoba companies. Resulting improvements to the Lab's Industry Membership structure and other modifications stemming from recommendations of a recent International Peer Review of TRLabs are expected to increase both the level of industry participation and the number of applied research and commercialization projects undertaken in Manitoba. The Department provided support for the TRLabs ICT Symposium on Home Technologies and co-hosted the TRLabs Community Dinner.

Emerging Areas of Research Innovation

The branch worked closely with the Nanofabrication Systems Laboratory at the University of Manitoba to increase its research capacity through increased infrastructure and human resources. In 2005/06, the Province provided its first installment of a three year agreement totaling \$110.0 to support the Lab. This contribution will support the recruitment of an Operations Manager who will liaise with industry and manage commercial relationships for the Lab, as well as initiate a training program for industrial users. A nano-website and newsletter will also be developed to raise awareness amongst the academic and industrial community of the Lab's capabilities and the importance of nanotechnology to research and commercial activity.

Financial Assistance Programs

In concert with Manitoba Industry, Economic Development and Mines, the branch has worked with a number of technology-based companies to provide support for technological assessments and marketing evaluations for business expansion purposes. This year, six ICT companies received support through the Feasibility Studies Program (FSP) and the Technology Commercialization Program (TCP).

3. Marketing Manitoba's ICT Sector and Attracting ICT Investment

Marketing

In 2005/06 the branch developed promotional profiles for four of Manitoba's ICT sub-sectors; Software and Computer Services, Electronics, Communications Technologies and Interactive Digital Media. These inserts were produced for use with the ICT sector Brochure "You've got it made in Manitoba" and were also posted to the branch website. The publications are available to Manitoba industry to utilize as part of their own marketing efforts and have been forwarded to major Trade Offices in the US and the sectors top 5 export markets.

Manitoba ICT Guide 2005/06

The Branch collaborated with the ICT Association and other government offices to create a new print directory and CD, titled, "Manitoba's Directory of Information and Communications Technologies Resources". The directory highlights Manitoba ICT firms and their capabilities with the intention of marketing local capabilities both here and abroad.

Manitoba Interactive Media Market Development/Investment Attraction – Similar to the film/television industry, the scale and scope of Manitoba's local new media industry is limited by available resources, such that outside work will be an important factor in increasing the volume of activity and supporting infrastructure in the province. In 2005/06, EST, in collaboration with stakeholders, began identifying areas of opportunity and building relationships with target companies in an effort to attract project work to Manitoba. EST attendance at relevant market events and personalized marketing trips will be an important part of this effort.

Manitoba Film & Video Production Tax Credit (MTC) Program – This is a critical tool in stimulating project work in Manitoba. Under the existing legislation, the Minister of IEDM approved an interpretation policy in 2005 allowing access to the program for video games targeting minors (rated "E" for everyone or "T" for teen). The tax credit will be very attractive to outside companies in an industry that is just beginning to realize the benefits of outsourcing work. In an environment where outsourcing is still relatively new and Manitoba has no industry profile, the tax credit will be a vital tool to attract this activity to the province.

4. Fostering a Knowledgeable and Growing ICT Workforce

The branch, in partnership with the Information and Communication Technologies Association of Manitoba (ICTAM), Manitoba Advanced Education & Training – Industry Training Partnerships, Western Economic Diversification Canada, Industry Canada, and the Software Human Resources Council, engaged a local firm to undertake an Industry and Workforce Needs Study of the ICT sector. Outcomes from the study are being utilized by stakeholders to define strategies for sector growth, health and increased competitiveness on a global scale.

Life Sciences

Life Sciences worked with key stakeholders on initiatives in the health biotech, agricultural biotech and environment sectors that lead to increased investments and the creation of high quality jobs in the province. This effort was a contributing factor in Manitoba being recognized within a 2005 Government of Canada biotechnology report as having the fastest growing biotechnology industry in Canada.

The efforts of Life Sciences in 2005/06 were primarily focused on four activities:

1. Working With Key Stakeholders on Economic Development Initiatives
2. Supporting Research
3. Increasing Industry Awareness of the Life Sciences Sector Internally and Externally
4. Establishing Formalized Linkages

1. Working With Key Stakeholders on Economic Development Initiatives

International Centre for Infectious Diseases (ICID)

The International Centre for Infectious Diseases (ICID) was established in October 2004 as a not-for-profit corporation with the vision to be a world leader in research, training, commercialization and innovation in addressing the threat and impacts of infectious diseases. At its core, ICID is a centre where leading minds in Canada and around the world address difficult problems in the area of infectious diseases. The Centre will play a critical role in Canada's fight against infectious diseases, as well as serve as the nexus of an integrated cluster of institutions and capabilities in Manitoba.

The Department provided funding in the amount of \$300,000 in 2005/06 in support of innovation and training projects focused on attracting, developing, and retaining Manitoba's highly sought-after infectious disease workers. ICID has also developed business opportunities through the delivery of training programs to international jurisdictions as well as helping organizations build knowledge and capacity to deal effectively with a potential influenza pandemic.

Biovail Expansion

The Life Sciences Branch worked with Biovail Corporation to facilitate a \$27.6 million dollar expansion of their manufacturing plant in Steinbach. This was Biovail's second major expansion in five years.

Cangene Expansion

In March of 2006, Cangene Corporation completed a significant \$30.2 million dollar expansion of their Winnipeg facility in order to their capacity for fulfilling US Biodefense contracts. The Life Sciences Branch has been working with Cangene to assist and support their efforts in this regard.

Community Investment Support Program (CISP)

The Province invested \$25,000 in the Community Investment Support Program (CISP) to assist Manitoba-based organizations from academia, industry, and other public sector agencies with an expertise in infectious diseases in identifying the tools and opportunities for expanding into key markets in Canada and the U.S. Primarily these funds were expended on two projects that the Life Sciences Branch was involved in:

1. The Life Sciences Branch worked extensively with Destination Winnipeg on the development of a life sciences brochure, "From Research to Market", which comprehensively outlines Manitoba's world class network of research facilities, educational institutions and private sector industry and investment in life sciences.
2. The Life Sciences Branch also worked with Destination Winnipeg and the International Center for Infectious Disease to commission Ernst & Young to do a capability and capacity study on the Manitoba infectious disease sector.

Biotechnology Training Programs

The Life Sciences Branch, in cooperation with Manitoba Advanced Education and Training, assisted Red River College in Winnipeg to institute a new state of the art biopharmaceutical manufacturing training facility, the first of its kind in western Canada. The new laboratories were opened in early 2006, and hold promise to advance Manitoba's knowledge based economy by assisting to meet the accelerating human resource needs in the life sciences industry.

Innovative Magnetic Resonance Imaging Systems (IMRIS)

In 2005, a new company, Innovative Magnetic Resonance Imaging Systems (IMRIS) spun out of the National Research Center's Institute for Biodiagnostics in Winnipeg was assisted by Energy Science and Technology and Industry, Economic Development and Mines to establish their manufacturing facility at SmartPark at the University of Manitoba. IMRIS has developed an interoperative magnetic resonance imaging (MRI) system that allows MRI scanning during surgery.

Health Care Products Association of Manitoba (HCPAM)

The Life Sciences Branch has been working with the Health Care Products Association of Manitoba (HCPAM) to assist and encourage their discussions around expanding their role as a health care products association to an association that represents the interests of the broader life sciences community in Manitoba. This process has seen HCPAM take responsibility for organizing the annual

Business of Science Symposium in October of 2006. A representative from the Life Sciences Branch sits, in an ex-officio capacity, on the board of HCPAM.

Environmental Industries

As part of the on-going support to the highly diversified environmental industry sector, EST continued to facilitate the federal/provincial/civic Environmental Industries Sector Team in Manitoba. The objective is to share information and identify projects for collaboration. The Life Sciences Branch also provided logistical support to the newly forming Manitoba Geothermal Industry Association (MGIA) and the Manitoba Chapter of the Canadian Green Building Council. As a result of on-going efforts with individual companies and researchers, the branch also facilitated the creation of a climate change advisory committee made up of private enterprises and researchers in Manitoba.

2. Supporting Research

The Life Sciences Branch worked with Strategic Planning and Analysis to identify funding priorities for life science research and infrastructure development through the Manitoba Research and Innovation Fund (MRIF). Energy, Science and Technology announced \$1.25 million in funding through the MRIF to assist the St. Boniface General Hospital Research Centre in developing laboratory space for the Canadian Centre for Agri-Food Research in Health and Medicine (CCARM). Funding of \$960,000 from the MRIF was also announced to support the Centre for Mammalian Functional Genomics – research within the "North American Conditional Mouse Mutagenesis Project (NorCOMM): High Throughput Mammalian Functional Analysis for the discovery of novel determinants of human disease" as well as enhancing the Centre's high throughput transgenic mouse capabilities.

The Life Sciences Branch actively participates on the University of Manitoba's Faculty of Environment, Earth and Resources' External Liaison Committee to stimulate greater collaboration between the academic and private sectors.

3. Increasing Industry Awareness of the Life Sciences Sector Internally and Externally

AusBiotech 2005 Conference

AusBiotech 2005 conference and exhibition was held in Perth, Western Australia in November 2005. Staff from the Life Sciences Branch attended the conference and participated in partnering meetings to showcase and promote Manitoba's life sciences sector and to identify opportunities to increase collaboration between the two jurisdictions. Approximately 1,000 participants from Australia and the international community were in attendance. In addition, meetings were held with government and life science industry representatives in Sydney, New South Wales; Melbourne, Victoria; and Adelaide, South Australia. Opportunities for inward investment, partnerships and research collaborations were identified at the meetings.

BIO 2005 International Biotechnology Convention and Exhibition

Each year the Biotechnology Industry Organization (BIO) hosts the world's premier biotechnology conference, bringing together scientists, entrepreneurs and innovators from around the world. Held in Philadelphia, PA, BIO 2005 saw over 17,000 registrants and 1,000 exhibitors. In response to interest from Manitoba biotechnology companies and research centres, 1000 sq ft of exhibit space was purchased for a Manitoba pavilion at BIO 2005. Within the pavilion, there were nine Manitoba exhibitors: Cangene Corporation; NRC Institute for Biodiagnostics; University of Manitoba; Lombard Life Sciences; Medisure Inc.; National Microbiology Laboratory; and Manitoba Energy, Science and Technology. In total, 45 Manitobans participated in BIO 2005, including Premier Doer. In a post-event evaluation, the companies believed that they identified, on average, ten solid business leads. It was felt that it would take about twelve months to pursue these contacts. The companies appreciated the leadership shown by the Life Sciences Branch at BIO 2005 and requested the same level of involvement at BIO 2006 in Chicago.

Business of Science Symposium 2005

The Business of Science Symposium is a two-day conference designed to raise awareness, educate, celebrate and promote business and career opportunities in Manitoba's growing life sciences industry. The main objective of the Symposium is to strengthen the province's primary life sciences sectors, agriculture, health and environment, by creating awareness of industry capabilities and facilitating

connectivity between stakeholders. The fourth annual Symposium was held in Winnipeg on October 25 and 26, 2005.

The event was highly successful in capturing the momentum of Manitoba's dynamic life sciences industry and celebrating its scientific and business expertise. More than 550 people attended the Symposium, including business leaders, researchers, science and technology innovators, life sciences students and educators, capital providers, and government officials who support the life sciences sector. The Life Sciences Branch was responsible for the delivery of this event.

Environmental Industries

The Life Sciences Branch coordinated the highly successful Manitoba Pavilion at the United Nations Conference of the Parties (CoP 11) in Montreal. The pavilion included participation from private companies and researchers with world class expertise in climate change.

Manitoba was also represented at two international environmental trade shows and conferences, Americana in Montreal and Globe in Vancouver reaching over 20,000 delegates from around the world. As part of the Globe follow-up, Manitoba hosted trade commissioners from San Francisco, the UK, Greece, Ireland and Austria with the latter bringing to the province prospective investors interested in Manitoba's burgeoning biomass capability.

4. Establishing Formalized Linkages

Wellness West

Wellness West, established in 2003, is a western Canadian collaboration dedicated to the development of an economically viable functional foods and natural health products industry in western Canada. The partner organizations include: Agriculture and Agri-Food Canada; Alberta Agriculture, Food and Rural Development; British Columbia Ministry of Agriculture, Food and Fish; Canadian Technology Network; Manitoba Agriculture Food and Rural Initiatives; Manitoba Energy, Science and Technology; National Research Council's Industrial Research Assistance Program; Saskatchewan Agriculture Food and Rural Revitalization; Saskatchewan Industry and Resource; and Western Economic Diversification. A number of initiatives were undertaken in 2005/06 on behalf of the partner organizations including: updating of technology infrastructure data base; completion of technology commercialization road map document; initiation of technology commercialization roadmap training sessions; and workshop for development of a Strategic Plan to Link Agri-food and Health Initiatives.

Agricultural Policy Frame Work

Canada's Agricultural Policy Framework (APF) provides a robust and forward-looking orientation for agriculture and agri-food industries in Canada. The objective of APF is to secure profitability of the agriculture and agri-food sector over the long term by making Canada a world leader in food safety, innovation and environmentally responsible production. Staff within the Life Sciences Branch continue to participate as one of Manitoba's representatives on the Agricultural Policy Framework Federal/Provincial/Territorial Science and Innovation Working Group.

BIOTECanada Accord

In 2005 the Life Sciences branch participated as a member of the BIOTECanada Accord, a committee chaired by BIOTECanada with representation from each provincial jurisdiction. The committee's mandate is to identify initiatives which advance Canada's biotech industry and in particular the role to be played by BIOTECanada, Canada's national biotechnology industry association. This committee represents an opportunity for the Province to provide input into the national biotech agenda.

The Life Sciences Branch supported the National Biotechnology Week in Canada, an initiative led by BIOTECanada. Activities were undertaken in each provincial jurisdiction to raise the level of awareness among decision makers, opinion leaders and Canadians about the social and economic value of biotechnology.

Broadband Initiative

Since its creation in September 2001, Broadband Initiative has been active on several fronts in terms of partnership development with the private sector and community based organizations in order to provide

high speed internet/Broadband solutions to various regions of the Province where that service does not currently exist.

It is this Province's vision to utilize high speed Internet connectivity to secure all of those economic and social benefits available through the use of information and communications technologies for the benefit of all Manitobans.

The Initiative continues to lend support to the activities undertaken by Industry Canada's Broadband for Rural and Northern Development (BRAND) Program. This \$150 million National initiative announced in September 2002 has provided 118 Manitoba communities with a total of \$6.6 million in matching funds to enable the creation of broadband networks throughout the province.

In July of 2004 the province's new Broadband Strategy entitled Connecting Manitobans was approved by the Community Economic Development Committee of Cabinet.

The objective of the Provincial Broadband Strategy is to ensure that all communities in Manitoba have access to broadband or high speed network services by 2010.

Community Connections

On March 7, 2000 the Governments of Canada and Manitoba announced a cost-sharing Memorandum of Agreement (MOA) of up to \$11.1 million to increase the number of public Internet access sites in Manitoba from 146 to 586. The MOA with Industry Canada was extended providing a further \$2.48 million for the 2002/03 and 2003/04 fiscal years. In both 2004/05 and in 2005/06 there was a further \$666,500. These funds were used to; support the existing access sites, further develop the Community Resource Networks (CRN's) and the content of their websites, develop enhancements to the CIMnet application used by the CRN's for their websites, provide Help Desk support and, to support the Canada Access Program Youth Initiative (CAPYI).

In Winnipeg, 201 sites were established, 61 in Northern Manitoba and 338 in rural Manitoba; sites were established in a variety of community organizations. The capacity of all public libraries was significantly increased. Funding support available to the access sites included funds for connectivity, assistive technology and small grants for local communities' broadband initiatives.

Community access sites are organized into Community Resource Networks (CRN's) that jointly develop and host local websites. The Seniors Resource Network, for example, has developed a website-<http://seniors.cimnet.ca> that presents the best of senior's related information. This is the default homepage for the access sites in the 30 senior's resource centres throughout Manitoba. Sites in the Transcona Resource Network are linked to community information through <http://transcona.cimnet.ca>. Approximately 25 CRN's are currently under development. Many Northern communities are beginning to use public access and CIMNet applications to create virtual communities. The Hudson Bay Neighbors (<http://hbn.cimnet.ca>) and the Bayline Regional Roundtable (<http://baylinerrt.cimnet.ca>) are recent examples.

Out of the work being done through the Community Connections Initiative the youth development team (from Brandon University) has developed into a small Manitoba software development company (Function Four, Inc.). This group with the support of CIMNet, Community Connections, and Industry Canada has developed the CIMNet applications and is working on the development of an E-Index.

Technical and application support was originally provided to access sites by a Help Desk established by the Swan Valley Resource Network with support from Community Connections. This has since developed into a small Manitoba company (83 North, Inc.). A similar Francophone helpdesk was developed in partnership with Réseau de ressources communautaires franco-manitobain (CDEM)

Communities Connections has funded approximately 50 access sites in bilingual Manitoba municipalities. The Help Desk was expanded in 2003/04 to provide service to Saskatchewan, Alberta, Nunavut and the North West Territories. Toward the end of 2003/04 the two separate services merged to form a not-for-profit organization known as HelpCan. In 2004/05 help desk services were migrated to the Manitoba E-Association for delivery.

The CAP Youth Employment Initiative employs approximately 160 Youth (age 16 to age 29). Youth employees are funded through a partnership with funding of approximately \$1.0 million from various partners including; Community Connections, Industry Canada, MB Education, and Microsoft. Youth support the operation of access sites and the CRN web sites. Toward the end of 2003/04 The Manitoba E-Association, a not-for-profit organization, was established to serve as the delivery agent for the CAPYI program. In 2004/05 this organization expanded to deliver help desk services. Throughout 2005/06 it also coordinated communication for the Canada Access Program for the Prairie Northern Region (PNR) and published a newsletter, delivered project management services for the Parkland Region Wireless Broadband Rollout, delivered Mobile Technology Workshops for Industry Canada's B.R.A.N.D. program, and is developing a community learning network in Canupawakpa and Sioux Valley first Nations communities through federal Office of Learning Technologies. Manitoba E-association was also invited to participate in Microsoft's Global Community Affairs Summit where was presented with an award for outstanding contribution to the Unlimited Potential Program.

In 2003/04 Community Connections worked with Service Manitoba on the evaluation of this initiative. A further review by an independent contractor was conducted in 2005/06.

18-3(a) Science, Innovation and Business Development

Expenditures by Sub-Appropriation	Actual 2005/06	Estimate 2005/06		Variance Over (Under)	Expl. No.
	\$	FTE	\$		
Total Salaries & Employee Benefits	1,566.9	21.00	1,574.3	(7.4)	
Total Other Expenditures	765.7		777.3	(11.6)	
Manitoba Research & Innovation Fund	12,812.9		12,950.0	(137.1)	
Manitoba Centres of Excellence Fund	600.0		600.0	-	
Less: Recoverable from Urban Development	(614.1)		(750.0)	135.9	
Total Expenditures	15,131.4	21.00	15,151.6	(20.2)	

MANITOBA HEALTH RESEARCH COUNCIL

The Manitoba Health Research Council (MHRC) provides funding for health research initiatives. The Manitoba Health Research Council tables its annual report under separate cover with the Manitoba Legislature.

18-3(b) Manitoba Health Research Council

Expenditures by Sub-Appropriation	Actual 2005/06 \$	Estimate 2005/06 FTE \$	Variance Over (Under)	Expl. No.
Total Expenditures	1,952.6	1,952.6	-	

INDUSTRIAL TECHNOLOGY CENTRE

The Industrial Technology Centre (ITC) is a special operating agency of the Department of Energy Science and Technology. The Department supports ITC's contribution to economic development activities in Manitoba via an Economic Development Contribution Agreement (a performance contract). ITC provides a wide range of technical services in support of technology based economic development in Manitoba. ITC tables its annual report under separate cover with the Manitoba Legislature.

18-3(c) Industrial Technology Centre

Expenditures by Sub-Appropriation	Actual 2005/06 \$	Estimate 2005/06 FTE	\$	Variance Over (Under)	Expl. No.
Total Expenditures	600.0	600.0		-	

MANITOBA EDUCATION, RESEARCH AND LEARNING INFORMATION NETWORKS

The Manitoba Education, Research and Learning Information Networks (MERLIN), is a special operating agency of the Department of Energy Science and Technology. MERLIN tables its annual report under separate cover with the Manitoba Legislature.

18-3(d) Manitoba Education, Research and Learning Information Networks (MERLIN)

Expenditures by Sub-Appropriation	Actual 2005/06 \$	Estimate 2005/06 FTE \$	Variance Over (Under)	Expl. No.
Total Expenditures	445.8	445.8	-	

MANITOBA INFORMATION AND COMMUNICATION TECHNOLOGIES

MANITOBA INFORMATION AND COMMUNICATION TECHNOLOGIES (MICT)

Ensure the best possible use of the province's existing information and communication technology (ICT) resources, systems, platforms, applications, and skills, while finding new ways to meet service challenges, plan for future needs, and respond to economic opportunities.

ACTIVITIES/RESULTS

MICT established the following targets in support of activities undertaken in 2004/05:

- Define an enterprise-wide ICT architecture for government encompassing technology standards, directions, and practices and facilitate implementation in all areas of government.
- Develop and apply ICT investment and performance measurement framework to evaluate ICT investment proposals and to measure the impact of technology initiatives in government.
- Ensure government ICT-related procurement is coordinated, facilitate departmental access to technology products and services, and provide expert advice and guidance to purchasers.
- Develop approaches to organization, strategies, and planning to meet Health Information Technology requirements and ensure consistency with corporate needs and direction.
- Ensure that government receives maximum benefit from its corporate business applications, such as SAP.
- Develop, maintain and support the government corporate ICT infrastructure including networks, desktops, servers, and applications to meet the current and future needs of government.
- Monitor and enhance the security of the government ICT infrastructure to ensure protection of the electronic data entrusted to the Manitoba Government by its citizens.
- Participate in Civil Service renewal activities with emphasis on departmental priorities of change management, leadership and diversity.

MICT reports the following results in 2005/06:

- The project to consolidate servers is proceeding. This project will allow government to manage ICT services more cost effectively.
- MICT provides Wide Area network services (i.e. PDN services) to the health sector. Services are being augmented as necessary to support new Health IT initiatives.
- MICT is working closely with the health sector on strategies and plans to introduce additional managed ICT services into the health sector including but not limited to security, desktop and hosting services. MICT and Health are exploring opportunities for leveraging managed services from government into health where appropriate.
- Government procurement services for desktop and laptop computers and peripheral devices have been extended to the health sector enabling health authorities to procure equipment at a significantly reduced cost.

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- Phase three of the Refresh program for desktop and laptop computers is complete. Phase four is underway and will be complete by the end of the 2006/07 fiscal year.
 - Refresh of the Local Area Network switch infrastructure is underway and will be complete at the end of the 2007/08 fiscal year. This refresh will position Manitoba to take advantage of emerging applications such as Voice over IP (VoIP).
 - A stable source of capital funding has been established in MICT budgets to support ongoing life cycle refresh of desktop and network infrastructure.
 - New ICT services including but not limited to wireless access and Virtual Private network (VPN) access services have been introduced to facilitate remote access to information for mobile government employees.
 - Government contracts for telephone, cellular and long distance services have been extended to public sector organizations enabling those organizations, which choose to participate, to benefit from significant reductions in the cost of these services.
 - MICT launched a government-wide information security awareness program designed to educate staff on their responsibilities to protect the information entrusted to them
 - Deployed a vulnerability management system. The system monitors the network on a continual basis and performs monthly automated vulnerability assessments of the environment. Those assessments are then provided to the asset owner responsible for mitigating the vulnerability.
 - Deployed internet content filtering on the network. Content filtering software now prevents staff from visiting inappropriate sites that could potentially infect their workstation. This has resulted in an average reduction of between 95-98% in the number of viruses that are reaching the government's desktop environment.

COORDINATED SERVICES UNIT

OBJECTIVES

The Coordinated Services Unit (CSU) provides support to the Coordinated Services Committee. The Committee is comprised of Deputy Ministers and provides support to government activities in the area of innovation in service delivery and technology. The CSU connects the Coordinated Services Committee with executive government and serves as an interface between government and stakeholders from business, industry, institutions and academia.

ACTIVITIES/RESULTS

Activities undertaken in 2005/06:

- Leading the Business Transformation initiative which is the development and implementation of the Enterprise Resource Planning system utilizing the SAP platform.
- Developing a Service Delivery Strategy for the efficient delivery of effective government services; over the phone, over the counter and over the Internet.
- Leading initiatives such as "At Your Service Manitoba" that approaches the electronic, telephone and in-person channels of government-citizen in a unified approach on a government-wide basis.
- Taking a leadership and policy role in influencing direction of the new Corporate Information Communications Technologies (ICT) organization, government-wide technology and innovation efforts, and service improvement and transformation.
- Leading development and implementation of a government-wide Information Management Strategy.
- Establishing an advisory committee of Manitoba leaders in the areas of innovation in technology and service delivery.
- Building upon the foundation built to date by the Coordinated Services Committee and the Coordinated Services Unit.

Results of activities:

Business Transformation

- Developed The SAP 1st Policy to facilitate the use of the software by government departments and the Government Reporting Entities.
- Secured SAP licensing for all employees of Government Reporting Entities.
- Developed roadmap for the implementation of an Enterprise Resource Planning system.
- Secured resources for four immediate and near term ERP projects:
 - Technical Upgrade
 - eCommerce for all government reporting entities
 - Integrated System for Accommodations Services
 - Finance and Human Resources Continuous Improvement.

Leading the Development of a Service Delivery Strategy for the province, which will create a government-wide perspective on service delivery capacities and responsibilities. This is done by considering and understanding community needs and by building on investments made in personnel, ICT and other infrastructure. Work on the strategy will continue through 2006/07.

Service Mapping – conducted a pilot project on the mapping of services and transformation opportunities in the area of Inspections Services offered by the Province.

Leading the "At Your Service Manitoba" (AYSM) initiative approaches the electronic, telephone and in-person channels of government/citizen in a unified approach on a government-wide basis. The following activities identify our progress for 2005/06:

Westman Service Centre:

- Opened the Centre in February 2005.
- Averaged more than 1,363 clients per month in 2005/06.

- Extensive training provided for the two Service Delivery Agents.
- The service delivery agents perform a variety of duties. In brief, some of the duties include redirecting documents and people to the appropriate departments/agencies both on and off site, receive deliveries, book board and conference rooms, provide faxing and copying service to off site government departments, download information from governments web sites, provide Commissioner for Oath services, distribute various government and non government forms and brochures and assist clients with completing various government forms

Service Standards:

- A key component of AYSM is the development and implementation of government-wide service standards.
- Working with Service Manitoba (Civil Service Commission), the departments were trained on common protocol and expectations for Phase 1, which is telephone standards.

Website Work:

- Web Policy and Standards updated and approved by Treasury Board.
- The standards are incorporated into a revised template to meet the World Wide Consortium Priority 2 Level for web accessibility.

Contact Directory:

- Implementation of an Internet Employee Contact Directory.

Corporate Service Improvement and Service Transformation Activities:

- Completed the Technology Advancement/Alternative Service Delivery (TAASD) Report, which reviewed government use of Information Communications Technologies (ICT) in the workplace and identified emerging technologies. Exploration and implementation of the report's recommendations are part of the CSU's Strategic Plan for 2005/06.
- Completed the Business Processes Review for the Crown Lands and Property Special Operating Agency (SOA).
- Influencing direction of the new Corporate ICT organization.
- Continued support and work on government decision-making processes that are aligned with provincial strategic goals.
- As part of the Civil Service Renewal goals, the CSU is co-leading the development of a corporate orientation plan directed at attracting new employees and orienting them to the provincial government.
- Completed a corporate Telephony report for the strategy and use of telephony resources in the government.

Leading a corporate Information Management Initiative in Manitoba:

- Completed the corporate Information Management Framework (IMF).
- Formed the corporate Information Management Unit.
- Implementation of several IMF priorities, specifically:
 - Development of guidelines for managing emails and efiles to provide immediate, practical guidance to individual users and work groups.
 - Development of corporate metadata standards to facilitate improved access to information assets.
 - Defined needs and practices for enterprise document/record/content management, aligned with standards and functional requirements now being developed for the next generation of desktop capability.
 - Development of an IM Community of Practice in the Government of Manitoba (addressing culture change necessary for successful implementation).

The CSU is an active participant on the Regional Services Program Review team, which has been brought together to review and assess co-location, consolidation and rationalization of provincial regional services and delivery.

18-4(a) Manitoba Information and Communication Technologies

Expenditures by Sub-Appropriation	Actual 2005/06	Estimate 2005/06		Variance Over (Under)	Expl. No.
	\$	FTE	\$		
Total Salaries & Employee Benefits	6,360.9	77.12	6,324.9	36.0	
Total Other Expenditures	47,967.0		47,986.1	(19.1)	
Total Less: Recoverable from other Appropriations	(28,940.2)		(28,411.9)	(528.3)	
Total Expenditures	25,387.7	77.12	25,899.1	511.4	

LEGISLATIVE BUILDING INFORMATION SYSTEMS

OBJECTIVES

To provide highly responsive ICT support services that address the business requirements of clients in the Legislative Building; Government, Legislative Assembly and Caucuses, by deploying and maintaining reliable systems in a secure technological environment.

ACTIVITIES/RESULTS

2005/06 Activities include:

- Direction and planning for information technology initiatives in the Legislative Building; Including providing consultation to Caucus groups and Legislative Assembly.
- Development and implementation of security strategies that monitor intrusions, detect viruses and enable recovery from disasters;
- Provision of desktop management services including help desk support, requirements analysis, purchasing and asset management;
- Management of server and communications infrastructure;
- Analysis, implementation and support of business applications; and
- Provision of consultative and project management services on in-house or outsourced requests.

In addition to provision of operational services major accomplishments for 2005/06 include:

- Upgrade services to provide enhanced Media Streaming of live broadcast of Legislative Proceedings and Live Audio for Committee Rooms;
- Provide Treasury Division with consulting, technical, and project management services in support of various specialty applications. Upgraded the main Treasury Manager application (TMan V7.1) which also included an upgrade to the SQL database backend as well as all reporting components. Investigated a new web-based product, Treasura, which will provide market to market financial credit exposure and manage Debt Investments, Derivatives and Foreign Exchange. Implemented software and infrastructure upgrades to accommodate communications with financial institutions. Piloted a new software product, Thomson-One as a potential replacement to existing Market Information tools;
- Implementation of upgrades and enhancements to the corporate web-based Activity & Issues Management System (AIMS); ongoing performance tuning of the application; consolidation of external and internal web servers. Implemented new hardware & software to accommodate new Oracle database server. Deployed to several new additional external departments;
- Implementation of enhancements to various custom applications, included are; the Witness application; Orders in Council and MATS Members Allowance System;
- Upgrade backup hardware and software to utilize latest technologies;
- Implemented new service which provides an alternative method of software deployment to desktops.
- Investigate and procure hardware for new security Firewall;
- Migration of desktops to newer hardware with the most current operating system and office automation software as part of a fourth year refreshment cycle;
- Initiated four year server refresh cycle with emphasis on consolidation of services. This included a refresh of all server hardware and a migration to the latest server and network operating systems;
- Ongoing upgrades to server applications such as Exchange for e-mail, Outlook Web access, enterprise Blackberry mail, anti virus software, backup software and procedures, Ghost software, and Proxy Services;
- Upgrades to Caucus environments in parallel to the LBIS server and application upgrades;
- Upgrades to the Caucus infrastructure hardware to switched technology for improved speed;
- Implemented a system to capture spam mail;
- Initiate project designed to upgrade the building communications infrastructure to increase security and accommodate growing bandwidth needs; Project is anticipated to span over a four year period.
- Implemented Virtual Private Network solution to allow Member's of the Legislative Assembly network access from within the Chambers;
- Continued re-engineering and migration of custom applications to thin client technology;
- Implementation of applications for the Legislative Assembly to assist in the categorizing and search of documents;
- Commenced development of custom application to manage events.

18-4(b) Legislative Building Information Systems

Expenditures by Sub-Appropriation	Actual 2005/06	Estimate 2005/06		Variance Over (Under)	Expl. No.
	\$	FTE	\$		
Total Salaries & Employee Benefits	939.2	13.00	887.8	51.4	
Total Other Expenditures	201.3		293.3	(92.0)	
Total Expenditures	1,140.5	13.00	1,181.1	(40.6)	

AMORTIZATION AND OTHER COSTS RELATED TO CAPITAL ASSETS

Commencing in 1999/2000, it is the policy of the Province of Manitoba to record in the accounts of the Province, the tangible capital assets owned and used by the Province along with appropriate amortization costs. The Provincial Comptroller has established standard asset classes, along with capitalization thresholds and corresponding amortization rates.

Consistent with this policy, the department records amortization of:

- the Enterprise System allocated to departments based on projected use;
- the Desktop Management Initiative costs allocated to the departments as a percentage of total units;
- the departments share of the total estimated costs of the Desktop Management Initiative and Enterprise System Management;
- the amortization of other departmental and government assets; and
- the interest related to the assets.

18-5 Amortization and Other Costs Related to Capital Assets

Expenditures by Sub-Appropriation	Actual 2005/06 \$	Estimate 2005/06 FTE \$	Variance Over (Under)	Expl. No.
(a) DESKTOP MANAGEMENT INITIATIVE				
Government-wide Desktop Costs	4,933.1	4,986.5	(53.4)	
Less: Recoverable from other appropriations	(5,124.4)	(4,986.5)	(137.9)	
(b) ENTERPRISE SYSTEM Amortization Expense	3,457.7	3,447.6	10.1	
Less: Recoverable from other appropriations	(3,457.7)	(3,447.6)	(10.1)	
(c) DESKTOP SERVICES				
- Amortization Expense -Transition	21.9	20.5	1.4	
- Enterprise Software Licenses	72.6	72.6		
(d) Amortization Expense	4,107.0	5,026.2	(919.2)	1
(e) Interest Expense	4,375.4	4,136.2	239.2	1
Total Expenditures	8,385.6	9,255.5	(869.9)	

1. The deferral of planned projects directly affects the planned amortization and interest.

ENERGY, SCIENCE AND TECHNOLOGY

Reconciliation Statement

EXPENDITURE DETAILS	
2005/06 MAIN ESTIMATES	56,790.1
Transfer of functions from: - Internal Reform, Workforce Adjustment and General Salary Increases	768.0
2005/06 ESTIMATE	57,558.1

Energy, Science and Technology

Expenditure Summary

For Fiscal Year Ended March 31, 2006 (with comparative figures for the previous year)

Estimate 2005/06 \$	Appropriation	Actual 2005/06 \$	Actual 2004/05 \$	Increase (Decrease) \$	Explanation Number
	18-1 Administration and Finance				
29.4	(a) Minister's Salary	29.7	28.9	0.8	
	(b) Executive Support				
378.8	(1) Salaries and Employee Benefits	384.7	378.9	5.8	
81.2	(2) Other	70.3	68.3	2.0	
150.0	(c) Administration and Finance	150.0	150.0	-	
639.4	Total 18-1	634.7	626.1	8.6	
	18-2 Energy and Climate Change Initiatives				
1,174.4	(a) Salaries and Employee Benefits	1,148.5	1,128.3	20.2	
1,244.3	(b) Other	1,030.0	938.8	91.2	
14.3	(c) Grants	14.0	12.1	1.9	
2,433.0	Total 18-2	2,192.5	2,079.2	113.3	
	18-3 Science, Innovation and Business Development				
	(a) Science, Innovation and Business Development				
1,574.3	(1) Salaries and Employee Benefits	1,566.9	1,501.0	65.9	
777.3	(2) Other	765.7	763.7	2.0	
12,950.0	(3) Manitoba Research and Innovation Fund	12,812.9	12,109.5	703.4	
600.0	(4) Manitoba Centres of Excellence Fund	600.0	556.0	44.0	
(750.0)	(5) Less: Recoverable from Urban and Rural Economic Development Initiatives	(614.1)	-	(614.1)	1
1,952.6	(b) Manitoba Health Research Council	1,952.6	1,952.6	-	
600.0	(c) Industrial Technology Centre	600.0	450.0	150.0	
445.8	(d) Manitoba Education, Research and Learning Networks	445.8	445.8	-	
18,150.0	Total 18-3	18,129.8	17,778.6	351.2	

Estimate 2005/06 \$	Appropriation	Actual 2005/06 \$	Actual 2004/05 \$	Increase (Decrease) \$	Explanation Number
18-4	MB Information and Communication Technologies				
	(a) MB Information and Communication Technologies				
6,324.9	(1) Salaries and Employee Benefits	6,360.9	5,291.8	1,069.1	2
47,986.1	(2) Other	47,967.0	37,457.3	10,509.7	3
(28,411.9)	(3) Less: Recoverable from other appropriations	(28,940.2)	(11,737.2)	(17,203.0)	4
	(b) Legislative Building Information Systems				
887.8	(1) Salaries and Employee Benefits	939.2	938.1	1.1	
293.3	(2) Other	201.3	208.7	(7.4)	
27,080.2	Total 18-4	26,528.2	32,158.7	(5,630.5)	
18-5	Amortization and Other Costs Related to Capital Assets				
	(a) Desktop Management Initiative				
4,986.5	(1) Government-wide Desktop Costs	4,933.1	4,986.1	(53.0)	
(4,986.5)	(2) Less: Recoverable from other appropriations	(5,124.4)	(4,986.1)	(138.3)	
	(b) Enterprise System				
3,447.6	(1) Amortization	3,457.7	3,447.6	10.1	
(3,447.6)	(2) Less: Recoverable from other appropriations	(3,457.7)	(3,447.6)	(10.1)	
	(c) Desktop Services				
20.5	(1) Amortization Expense-Transition	21.9	21.5	0.4	
72.6	(2) Enterprise Software Licenses	72.6	72.6	-	
5,026.2	(d) Amortization Expense	4,107.0	3,615.2	491.8	
4,136.2	(e) Interest Expense	4,375.4	4,231.7	143.7	
9,255.5	Total 18-5	8,385.6	7,941.0	444.6	
57,558.1	TOTAL ENERGY, SCIENCE AND TECHNOLOGY	55,870.8	60,583.6	(4,712.8)	

Explanations:

- 1 No Recovery approved from Urban Development in 2004/05.
- 2 Funds approved from Internal Reform, Workforce Adjustments and General Salary increases for the former Better Systems Initiative (BSI) staff secondments and funds for secondments related to the Information and Communication Technology restructuring.
- 3 Primarily relates to desktop seat fees and new initiatives in 05/06.
- 4 Primarily relates to the recovery of desktop seat fees from departments and timing of recoveries.

Energy, Science and Technology

Revenue Summary by Source

For Fiscal Year Ended March 31, 2006 (with comparative figures for the previous year)

Actual 2004/05 \$	Actual 2005/06 \$	Increase (Decrease) \$	Source	Actual 2005/06 \$	Estimate 2005/06 \$	Variance \$	Explanation Number
Revenue							
3,005.9	65.3	(2,940.6)	Sundry	65.3	749.6	(684.3)	1
3,005.9	65.3	(2,940.6)	TOTAL	65.3	749.6	(684.3)	

Explanations:

1 Comparison to Previous Year

Revenue was higher in 2004/05 than in 2005/06 primarily due to EDS Contract concession service rebate.

1 Comparison Actual to Estimate

Revenue related to the Provincial Data Network (PDN) was lower than expected.

FIVE YEAR HISTORY

Energy, Science and Technology

Five-Year Expenditure and Staffing Summary by Appropriation (\$000s)

For Five Years Ended March 31, 2006

Appropriation	2001-2002		Actual/Adjusted Expenditures 2002-2003		2003-2004		2004-2005		2005-2006	
	FTE	\$	FTE	\$	FTE	\$	FTE	\$	FTE	\$
Administration and Finance				452.5	7.00	567.0	7.00	626.1	7.00	634.7
Energy and Climate Change Initiatives				1,722.7	19.00	2,139.0	16.00	2,079.2	16.00	2,192.5
Science, Innovation and Business Development	27.00	15,023.4	27.00	15,550.0	21.00	17,602.5	21.00	17,778.6	21.00	18,129.8
Manitoba Information & Communication Technologies				16,359.3	92.12	15,690.1	90.12	32,158.7	90.12	26,528.2
Amortization of Capital Assets				6,679.0		6,610.7		7,941.0		8,385.6
TOTAL OPERATING	27.00	15,023.4	27.00	40,763.5	139.12	42,609.3	134.12	60,583.6	134.12	55,870.8
Expenditures Related to Capital				268.0		5,935.6		6,683.7		17,167.3
TOTAL	27.00	15,023.4	27.00	41,031.5	139.12	48,544.9	134.12	67,267.3	134.12	73,038.1

* - Adjusted figures reflect historical data on a comparable basis in those appropriations affected by reorganizations during the five years

ENERGY, SCIENCE & TECHNOLOGY

05/06 Annual Report Performance Measurements

The 2005-06 reporting year is the first year that a standardized Performance Measurement section appears in Departmental Annual Reports. This section is another step in our process to provide Manitobans with a more complete picture of the activities of government and their impacts on the province. That process was begun in 2005 with the release of the document, *Reporting to Manitobans on Performance, 2005 Discussion Document*, which can be found at www.gov.mb.ca/finance/performance.

Performance indicators in departmental Annual Reports are intended to provide Manitobans with meaningful and useful information about government's activities, complementary to financial results. Some measures incorporate data collected by the provincial government, while others show data that are collected by external agencies. A range of existing, new and proposed measures may be reported in subsequent years, as the process continues to evolve.

Your comments on performance measures are valuable to us. You can send comments or questions to mbperformance@gov.mb.ca

L'exercice 2005-2006 est la première année où les rapports annuels du ministère comprennent une section d'information sur le rendement standardisée. Il s'agit d'une autre étape du processus visant à ce que les Manitobains aient un meilleur aperçu des activités du gouvernement et des répercussions de celles-ci sur la province. Ce processus a été amorcé en 2005 avec la publication du document *Rapport aux Manitobains sur le rendement — Document de travail 2005*, qui se trouve sur Internet à : www.gov.mb.ca/finance/mbperformance/perf02.fr.html.

Les indicateurs de rendement dans les rapports annuels des ministères ont pour objectif de fournir aux Manitobains des renseignements valables et utiles sur les activités du gouvernement, en tant que complément des résultats financiers. Certains renseignements incorporent des données recueillies par le gouvernement provincial, alors que d'autres montrent des données rassemblées par des organismes externes. À mesure que le processus évolue, un éventail de mesures actuelles, nouvelles ou proposées pourrait être inclus dans le rapport dans les années à venir.

Nous accordons beaucoup d'importance à vos commentaires sur la mesure de la performance. Vous pouvez nous les envoyer, ainsi que toute question, à mbperformance@gov.mb.ca

Strategic Priority: Drive implementation of the Green Strategy and maximize energy & climate change opportunities for Manitobans

<i>What is being measured and how?</i>	<i>Why is it important to measure this?</i>	<i>What is the most recent available value for this indicator?</i>	<i>What is the trend over time for this indicator?</i>	<i>Comments/ recent actions/report links</i>
Progress toward developing alternative energy sources for Manitoba by measuring Wind Energy Production and the level of investment it is attracting in Manitoba.	Measuring alternative energy resources not only demonstrates the importance of diversifying the province's reliance on a single energy source, but it also recognizes the importance of developing clean, renewable and sustainable energy resources.	St. Leon has the first test Wind farm in Manitoba, which was built with a \$210 million private capital investment.¹ We do not have data for wind power generated in the fiscal year 2005/06, as this is new measure. There will be figures available in future annual reports.	New measure; no trend yet established.	For more information, please see the press releases and reports below. Province, Manitoba Hydro Unveil Expression of Interest To Develop 1,000 Megawatts of Wind Over the Next Decade – November 2005 http://www.gov.mb.ca/chc/press/top/2005/11/2005-11-21-01.html Southern Manitoba Farmers Set To Harvest Province's First Wind Crop – April 2005 http://www.gov.mb.ca/chc/press/top/2005/04/2005-04-28-04.html For more information about Wind Energy visit the Canadian Wind Energy Association website http://www.canwea.ca/ Province of Manitoba Climate Change Action Plan 2002 http://www.gov.mb.ca/est/climatechange/pdfs/final-mccap-sep-16-02.pdf

¹The St. Leon turbine is the first of 12 test wind turbines operational as of April 28, 2005, under the federal government's Canadian Renewable and Conservation Expense program which will be used to verify wind resources. Following a successful test phase, AirSource Power Fund will oversee the construction of a total of 63 wind-turbine generators, making up the 99-megawatt (MW) project covering two municipalities in southern Manitoba.

**Strategic Priority: Create major opportunities for community & economic development through
'New Economy' industries and technology**

What is being measured and how?	Why is it important to measure this?	What is the most recent available value for this indicator?	What is the trend over time for this indicator?	Comments/ recent actions/report links
Ability to create Community and Economic Development (CED) opportunities for Manitobans in the 'new economy' by measuring the number of communities in Manitoba with broadband or high speed Internet access.	Access to Broadband is a cornerstone to economic development as it creates opportunities for Manitobans to compete in global markets, enhances education opportunities through e-learning and provides access to health care through tele-health. ²	As of March 31, 2006, 216 of 473 communities were connected, which is 12% increase from the previous year.	Trend shows continued progress. In 2003, 23 communities were connected. In 2004, 76 more communities were connected, bringing the total to 96 of 473 communities. This number continued to increase in 2005 with 187 communities now connected.	For more information, please see the documents below. Manitoba Innovation Framework (2003) http://www.gov.mb.ca/est/innovation/index.html Broadband – High Capacity Internet for all Canadian Communities (Industry Canada) http://www.broadband.ic.gc.ca/pub/index.html?iin_lang=en The following independent article helps support our efforts toward Broadband Connectivity in Manitoba. "Internet Connectivity: A Churchill, MB Case Study" http://www.jred.ca This measure was also reported on page 46 of <i>Reporting to Manitobans on Performance 2005 Discussion Document</i> , which is available at http://www.gov.mb.ca/finance/mbperformance/index.html

² Access offers local businesses opportunities to participate in a wider area of commerce. Access and a community's web presence can be viewed as a tool for gaining e-commerce, enhancing economic development, and fostering growth in key areas. By reducing and even eliminating the economic costs traditionally associated with distance, broadband communications will offer all Manitoba communities the potential to capitalize on their natural and human assets.

Strategic Priority: Significantly improve Manitoba's research capacity and the environment for our researchers

<i>What is being measured and how?</i>	<i>Why is it important to measure this?</i>	<i>What is the most recent available value for this indicator?</i>	<i>What is the trend over time for this indicator?</i>	<i>Comments/ recent actions/report links</i>
The capacity of Manitoba's research community, by measuring the amount of funding directed to research organizations in Manitoba by the Manitoba Government.	Basic research capacity and its infrastructure is a key indicator as it is an indicator of Manitoba's competitiveness in retaining and attracting research investment and talented researchers and technologists.	In 2005/06 \$12.95 million of support was provided to expand Manitoba's research capacity through the Manitoba Research and Innovation Fund (MRIF).	Since the establishment of the MRIF's predecessor, the Manitoba Innovation Fund (MIF)³ in 1998, the total annual research funds disbursed through EST has increase from \$7 million to \$12.95 million. Since 2003/04, when these funds were consolidated into the MRIF, the Province has approved over \$64 million for Research Fund projects.	Manitoba Innovation Framework http://www.gov.mb.ca/est/innovation/index.html The MRIF also works with national funding organizations that provide matching funds to Manitoba projects including the federal Canadian Foundation for Innovation (CFI), Genome Canada and Canadian Institutes for Health Research (Regional Partnership Program). For more information, please view the websites below Canadian Foundation for Innovation (CFI) http://www.innovation.ca/index.cfm Genome Canada http://www.genomecanada.ca/ Canada and Canadian Institutes for Health Research (Regional Partnership Program.) http://www.cihr-irsc.gc.ca/

Strategic Priority: Drive and support service transformation in Government

<i>What is being measured and how?</i>	<i>Why is it important to measure this?</i>	<i>What is the most recent available value for this indicator?</i>	<i>What is the trend over time for this indicator?</i>	<i>Comments/ recent actions/report links</i>
The effectiveness of government's service transformation efforts toward citizen-centered service delivery, by measuring key data from the Citizens First Surveys, conducted by the Institute for Citizen-Centred Service and the Institute of Public Administration of Canada.	Public demand for improved service delivery continues to escalate year over year, which means that government must monitor its service improvement progress to ensure that it is meeting the needs of its citizens.	In the Citizens First 4 Survey (2004 results), 66% of respondents rated their last government service experience in Manitoba as a "4" or "5" on a scale of 5 (where 5 is high). Nationally, 63% of respondents across Canada rated their last government service experience at that level. Manitoba's service quality appears to be slightly above the average for this measure. 2004 results are the last ones available. The survey is conducted across Canada on a regular basis.	This measure is new and no trend data are yet available.	Manitoba Innovation Framework http://www.gov.mb.ca/est/innovation/index.html Visit this site to review the outcomes of Citizen First 4 http://www.gov.mb.ca/csc/servicemb/smb_gi1.html

Strategic Priority: Find the top opportunities to lever and expand Government's ICT assets as strategically as possible to benefit Manitobans

<i>What is being measured and how?</i>	<i>Why is it important to measure this?</i>	<i>What is the most recent available value for this indicator?</i>	<i>What is the trend over time for this indicator?</i>	<i>Comments/ recent actions/report links</i>
Manitoba's ability to maximize the use of our Information and Communication Technology (ICT) assets by measuring the number of Public Sector entities (i.e. schools, hospitals, and crown corporations) that use the Public Sector Data Network (PSDN) ³ as their primary network infrastructure.	Public sector entities that choose to become part of a larger user network will benefit from reduced costs, reliable service levels and consistent security provisions.	Currently 15 Education sites ⁴ and all 11 of the Manitoba Health Authorities are using the PSDN under the current contract.	No trends yet established, as this is a new measure.	As access to the PSDN in the public sector broadens, the government will gain overall savings as a result of a more inclusive, robust contract that is negotiated on behalf of all public sector organizations.

³ The government's Provincial Data Network (PDN) has been renamed the Public Sector Data Network (PSDN). The PSDN represents a contract for the use/sharing of ICT capabilities with the public sector.

⁴ We define education sites as any educational facility, such as schools or post-secondary institutions, as well as administrative offices, such as school division offices, that support educational facilities.

PART B - CAPTIAL INVESTMENT

Capital Investment is provided in the Estimates of Expenditures under Part B. For the year ended March 31, 2003, the department's capital authority provided for the purchase of hardware and software to provide for the development of an information technology infrastructure refresh business plan. Support for internal reform initiatives involving the use of information technology in the delivery of government's services, including the Better Systems Initiative, are reported separately.

Part B - CAPITAL INVESTMENT

Expenditures by Sub-Appropriation	Actual 2005/06	Estimate 2005/06	Variance	Expl. No.
	\$	FTE	Over (Under)	
B.6(a) – Enterprise System	10,119.3	10,265.7	(146.4)	
B.6(b) – Other Information Technology Projects	625.1	621.5	3.6	
B.6(c) – Desktop Refresh Initiative	5,257.6	5,260.0	(2.4)	
B.6(d) – New Equipment Acquisition	510.9	511.4	(0.5)	
B.6(d) – Print Services/Network Switches	654.4	674.9	(20.5)	
Total Capital	17,167.3	17,333.5	(166.2)	

APPENDIX A

ASSOCIATED AGENCIES, COMMISSIONS and COUNCILS

INDUSTRIAL TECHNOLOGY CENTRE

The Industrial Technology Centre (ITC) is a special operating agency of the Department of Energy Science and Technology. The Department supports ITC's contribution to economic development activities in Manitoba via an Economic Development Contribution Agreement (a performance contract). ITC provides a wide range of technical services in support of technology based economic development in Manitoba. ITC tables its annual report under separate cover with the Manitoba Legislature.

MANITOBA EDUCATION, RESEARCH AND LEARNING INFORMATION NETWORKS

The Manitoba Education, Research and Learning Information Networks (MERLIN), is a special operating agency of the Department of Energy Science and Technology. MERLIN tables its annual report under separate cover with the Manitoba Legislature.

MANITOBA HEALTH RESEARCH COUNCIL

The Manitoba Health Research Council (MHRC) provides funding for health research initiatives. The Manitoba Health Research Council tables its annual report under separate cover with the Manitoba Legislature.

MANITOBA GAMING CONTROL COMMISSION

The Manitoba Gaming Control Commission is an independent commission created to regulate and control gaming activity in the Province of Manitoba with the aim of ensuring that the gaming activity is conducted honestly, with integrity and in the public interest. Manitoba Gaming Control Commission tables its annual report under separate cover with the Manitoba Legislature.

ECONOMIC INNOVATION TECHNOLOGY COUNCIL

The Economic Innovation and Technology Council (EITC) acts as a catalyst in establishing partnerships and alliances for increased economic development through innovation. EITC tables its annual report under separate cover with the Manitoba Legislature.

APPENDIX B

FINANCIAL INFORMATION

Energy, Science and Technology
Summary of Business Assistance
2005/2006 Fiscal Year

MANITOBA CENTRES OF EXCELLENCE FUND	600,000.00
MANITOBA RESEARCH AND INNOVATION FUND	12,812,900.00
LESS: RECOVERABLE FROM URBAN DEVELOPMENT	(614,100.00)
TRANSFER PAYMENTS	<u>2,998,400.00</u>
	<u>\$15,797,200.00</u>



